



Db	500	CGTCGCTGCCCCGCGGCCCCGGGCCCCGGCCGACACCAATGCCGGTCAACGG	559
QY	549	CTGGGGAGAAGTCGTCAGAGAGGCAAGATCTTGGCTCTCCCTGGGTCCTACAGAAATGGA	608
Db	560	CTGGGGAGCCCTCCCGCCGAGAGTGCCTCCACAGTGGACGACCCCTCAAGAGAAATGAG	619
QY	609	GCTAAGGCTGCTGGGGAGAGGCCACCGTCAATGTCTCTACAGCCAGCCGGTCCCTTCAA	668
Db	620	GGTGGCCGCTGCTGGAATCGCGACACTGTCGCAAGGCGCTTCAACAATGGGCGCGGACGTGCC	679
QY	669	CCTCACTCTCAAGATAT--TCCAGAGAGTGTGTGTGTGTGTACTTACCAAGGCGCGCAG	725
Db	680	CCAGGCTAAGCCCAATGTGTGCTGCTGGAGAGTGTGTGTGCGGGCTAACCCCAAGGGCCACAA	739
QY	726	GGACACCTGCCAGGGGTGACTGTGGGGGGGCGCCGTCTGTGAGAGAGGGCGCCGTGTT	785
Db	740	GGACGCTGCCAGGGTGAATTCGTGGGGGACCTCTGACCTGCTGCAATCTTGGGAGCTGGGT	799
QY	786	CCAGGCAAGAAATCACACGCTTTGGGTTTGGCTGTGACGAGAGAAACCGCCCTGGAATTTT	845
Db	800	CTGTGTGGCCGCTGAGGCTGGGGCAAGGGTTGTGCTTGCACCAACGATTCAGGGGTCTA	859
QY	846	CATGCTGTGCTTACTTATGAGGACATGATTAAGGAGCAAGGTCA	889
Db	860	CACCAGTGTGGCCACATATAGCCCTTGGAATTCAGGCTGCCGTCA	903

```

RESULT 2
US-09-387-375-8
: Sequence 8, Application US/09387375
: Patent No. 6485957
: GENERAL INFORMATION:
: APPLICANT: Darrow, Andrew
: APPLICANT: Andrade-Gordon, Patricia
: APPLICANT: Qi, Jenson
: TITLE OF INVENTION: DNA Encoding the Human Serine
: TITLE OF INVENTION: Protease EOS
: FILE REFERENCE: CRT-1031
: CURRENT APPLICATION NUMBER: US/09/387,375
: CURRENT FILING DATE: 1999-08-31
: NUMBER OF SEQ ID NOS: 9
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 8
: LENGTH: 1130
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Nucleic acid
: OTHER INFORMATION: sequence of EOS zymogen fusion gene
: US-09-387-375-8

```

Query Match	19.7%;	Score 216.8;	DB 4;	Length 1130;
Best Local Similarity	58.0%;	Pred. No. 4.1e-40;		
Matches 427; Conservative	0;	Mismatches 297;	Indels 12;	Gaps 2;

QY	ATCGGGGGGGGCTCTAAACGCGCAGCCGGGACCTGGCTTGGCAAGTGAAGCCTGACCAT	216
Db	ATCGTTGGGGGGCTATGCTCTAAGAGACGGAGATGGCCGTGGGAGCGAGCATCCAGCAT	225
QY	GGAGGTGGCCACATTTGGCGGGGGGCTCCCTACATCGCCCTCCTCGGGTCCCTTCGGGTGCT	276
Db	CCTGGGGACACGTGTGCGGGGGGTGCTCATCGCCCTCCAGTGGGTGTGACAGGGGG	285
QY	CACGTCTTCATGACGAATGGGACGTTTGAAGCCCGGGCCGAGTGTGCGTGACTGCTGGGC	336
Db	CACGTCTTCCCCAGGA-----GGGACATGCGACGTGAATACCGCGTGCCTGGGG	336
QY	GTGCACATCCCAAGACGGGCCCCGTGACAGCGCGGGGACACCCCGGCGAGTGGCCCGCAATCGG	396
Db	GCGCTGCGCTCTGGGGTCTCCACTCTGCGCCCGCAGCTCTCGGTGCGGTGACCGGGGCTTG	396
QY	GTGCGCGGCAACTACGACCAATGAGCTGGGCGCGCCGACCTTGAGCCCTGAC	456

Db	337	CTGCCCCCGAGCTACTCCAGGAGCGGGGCGCCGGCGACTTGGACCTGCTGACGCTGGCGT	456
QY	457	TCACCCGCGACGCTTGGAGCCCGCGCGTGTGGCTGTCTGTGCTTGCCTCCCGCGCTTCACACGCG	516
Db	457	CGCCCGGAGGCCCTGAGGCGCTGCGGTCCAAACCGTCTGCTGCGCGGTGCGCCGCGCGCCGC	516
QY	517	TTTCGTGACAGGACACCGCTGTGTGGGCGCACCGGCTTGGGGAGAGCTCCAGAGGCAGATCTCT	576
Db	517	CCGCGCCCGGACACCAATGCGCGGTCAACGGCTGGGCGAGCTCTCGCCACGAGATGGCC	576
QY	577	CTGACCTCTCCCTGTGATGCTACAGAGATGAGACTTAAGGCTCTGGGCGAGGCGACCTGT	636
Db	577	CTCCCAAGATGGCGACCGCTACAAAGATGAAGGTGGCGGCTGTGACCTCGCGCACCTGC	636
QY	637	CATGTCTCTACAGCGACGCGGATCCCTTCAACTCTCAAGATAT--TGCCAGGG	693
Db	637	GACGCGCTCTTACCAAGTGGGCGCGACGTCGCCAGGCTGACGCGCATTTGTGCTGCTCGGG	696
QY	694	ATGCGTGTGTGCGGTACCCCAAGGGCGGCAAGGACACTGGCAAGGATACCTGTGGGGG	753
Db	697	AGTCTGTGTGCGGCTTACCCCGAGGACCAAGAGACGCTGGCAGGATATTTCTGGGGGA	756
QY	754	CCCGCTGTCTGTGAGAGGACGCGCGCTGTGTTCCAGGCGAGATCAACGACTTTGGGTTT	813
Db	757	CCTCTGACCTGTGCTGCAGTCTTGGAGCTGTGGGTCTGTGTGGGGTGGTATGCTGGGGCAAG	816
QY	814	GCGCTGTGACGAGAAACCGCCCTTGAAGTTTCACTGTGTGGCTTACTATAGAGCATGG	873
Db	817	GGTGTGTGCTTCGCCAACCGTTCAGAGGGGTCTTACCAAGTGTGGCCACATATAGCCCTTGG	876
QY	874	ATAAGGAGGAGAGTGA 889	
Db	877	ATTCAAGGCTCGGTCA 892	

```

RESULT 3
US-09-386-642-8
; Sequence 8, Application US/09386642
; Patent No. 6420157
; GENERAL INFORMATION:
; APPLICANT: Darrow, Andrew
; APPLICANT: Qi, Jensen
; APPLICANT: Andrade-Gordon, Patricia
; TITLE OF INVENTION: Zymogen Activation System
; FILE REFERENCE: ORT-1028
; CURRENT APPLICATION NUMBER: US/09/386,642
; CURRENT FILING DATE: 1999-08-31
; NUMBER OF SEQ. ID NOS: 60
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 1142
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Fusion gene
; OTHER INFORMATION: with homo sapien serine protease catalytic domain
US-09-386-642-8

```

Query Match	16.6%;	Score 183.2;	DB 4;	Length 1142;
Best Local Similarity	53.5%;	Pred. No. 1.6e-32;		
Matches 411; Conservative	0;	Mismatches 348;	Indels 9;	Gaps 1;

Query Match	16.6%	Score 183.2	DB 4	Length 1142
Best Local Similarity	53.5%	Pred. No. 1.6e-32		
Matches 411	Conservative 0	Mismatches 348	Indels 9	Gaps 1
QY	157	ATCGTGGGGGGCTCAACGCGAGCGCGGCACTGGGCTTGGCAGTAGCCTGCACCAT	216	
Db	139	ATCGTGGGGGGCTATGCTCTTAGAGGCGGTCAGTGGCCCTGGCAGAGTCAGATCACTAT	198	
QY	217	GAAGGTGGCCACATTTGGCGGGGGCTCCCTCATGCGCCCTCCTGGGTCTCTCCGTGCT	276	
Db	199	GAAGGCGTCCACATGCTGTGTGTGGTCTCTCTGTGTGTGACAGATGGGTGCTGTCAAGTGGCT	258	
QY	277	CACGTTCATGACGAATGGAGACGTGGAGCCCGCGCGAGTGGTGGTACTGCTGTGGCC	336	

Db 259 CACTGCTTCCCGACGA-----GACCAACAAGAAAGCTATAGAGTCAAGCTG3939 309  
Qy 337 GTGACATCCACAGAGCGGCCCCCTTGAGACGCGCGCAACCCCGCAGATG3939 396  
Db 310 GCCACACAGCTAGACTCTCCACTCCGAGAGCGCAAGGTCCAGACCTTGAAGACATCATC 369  
Qy 397 GTGCGGCGCACTACAGCCCAAGTGAAGCTGGGCGCGACCTGGCCCTGTGCGCTG3939 456  
Db 370 CCCCACCCAGCTACCTCCAGAGAGGCTCCAGGGCGCAATGCACTCTCCATCTCAAGC 429  
Qy 457 TCACCGCGCAAGCTGGGCGCGCGCTGTGGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 516  
Db 430 AGACCCATCATTCTTCCCGCTACATCCGCGCATCTGCTCTCCAGCAAGCGCTTC 489  
Qy 517 TTGCTGACAGGCAAGCTGTGCTGAGGCAAGGCTGTGAGGAGAGCTCCAGAGAGAGATCT 576  
Db 490 TTCCCGCAAGGCTCTCACTGCACTGTCACTGGCTGGGCTCATGTGGCCCTCACTGAGC 549  
Qy 577 CTGCTCTCTCCCTGGGCTCTACAGGAAGTGAAGCTTAAGGCTGTGGGCGAGCGCACTGT 636  
Db 550 CTCCGACGCGCAAGCACTGCGAGCACTCGAGGCTCTGATCATGCTGAGACGTGT 609  
Qy 637 CAATGCTCTACAGCAGCAGCCGCTCTTCAACTCACTTCCAGATATTCAGAGAGATG 696  
Db 610 AACTGCTGTACAACTAGAGCGCAAGCTTGAAGAGCGCACTTGTCCAAAGAGACATG 669  
Qy 697 CTGCTGTGCTGCTACCGCAGAGGCGCGCAGAGCACTGCGAGGCTGTGGGCGGCGCC 756  
Db 670 GTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 729  
Qy 757 CTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 816  
Db 730 CTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 789  
Qy 817 TGTGAGAGGAGAAACCGGCTGAGGCTTTCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTG 876  
Db 790 TGTGAGAGGAGAAACCGGCTGAGGCTTTCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTG 849  
Qy 877 CGGAGAGAGTGAAGGCTTTCAGAGCTGAGGCTGAGGCTTTCAGAGCTTTCAGAGCTTTC 924  
Db 850 CAAGCAAGTGAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 897

RESULT 4  
US-09-386-642-7  
; Sequence 7, Application US/09386642  
; Patent No. 6420157  
; GENERAL INFORMATION:  
; APPLICANT: Darrow, Andrew  
; APPLICANT: Qi, Jenson  
; APPLICANT: Andrade-Gordon, Patricia  
; TITLE OF INVENTION: Zymogen Activation System  
; FILE REFERENCE: ORT-1028  
; CURRENT APPLICATION NUMBER: US/09/386,642  
; NUMBER OF SEQ ID NOS: 60  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 7  
; LENGTH: 1169  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURES:  
; OTHER INFORMATION: Description of Artificial Sequence: Fusion gene  
; OTHER INFORMATION: with homo sapien serine protease catalytic domain  
US-09-386-642-7

Query Match 16.6%; Score 183.2; DB 4; Length 1169;  
Best Local Similarity 53.5%; Pred. No. 1.6e-32;  
Matches 411; Conservative 0; Mismatches 348; Indels 9; Gaps 1;

Qy 157 ATCGTGGGGGCTCAAAACGCGAGCGGCACTGGGCTTGGCAAGTGAAGCTGACCAT 216  
Db 166 ATCGTGGGGGCTCAAAACGCGAGCGGCACTGGGCTTGGCAAGTGAAGCTGACCAT 225

Qy 217 GAAGTGGGCAATCTGCGGGGCTCCCTCATGCGCCCTCTGGGCTCTTCGCTCT 276  
Db 226 GAAGGCGTCAATGT 285  
Qy 277 CACTGTTTCAATGACGAATGGAAGCTTGAAGCTTGAAGCTTGAAGCTTGAAGCTTGAAGCT 336  
Db 286 CACTGTTTCCCAAGCA-----GACCAACAAGAAAGCTATAGAGTCAAGCTG3939 336  
Qy 337 GTGACATCCACAGAGCGGCCCCCTTGAGACGCGCGCAACCCCGCAGATG3939 396  
Db 337 GCCACACAGCTAGACTCTCCACTCCGAGAGCGCAAGGTCCAGACCTTGAAGACATCATC 396  
Qy 397 GTGCGGCGCACTACAGCCCAAGTGAAGCTGGGCGCGACCTGGCCCTGTGCGCTG3939 456  
Db 370 CCCCACCCAGCTACCTCCAGAGAGGCTCCAGGGCGCAATGCACTCTCCATCTCAAGC 429  
Qy 457 TCACCGCGCAAGCTGGGCGCGCGCTGTGGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 516  
Db 430 AGACCCATCATTCTTCCCGCTACATCCGCGCATCTGCTCTCCAGCAAGCGCTTC 489  
Qy 517 TTGCTGACAGGCAAGCTGTGCTGAGGCAAGGCTGTGAGGAGAGCTCCAGAGAGAGATCT 576  
Db 490 TTCCCGCAAGGCTCTCACTGCACTGTCACTGGCTGGGCTCATGTGGCCCTCACTGAGC 549  
Qy 577 CTGCTCTCTCCCTGGGCTCTACAGGAAGTGAAGCTTAAGGCTGTGGGCGAGCGCACTGT 636  
Db 550 CTCCGACGCGCAAGCACTGCGAGCACTCGAGGCTCTGATCATGCTGAGACGTGT 609  
Qy 637 CAATGCTCTACAGCAGCAGCCGCTCTTCAACTCACTTCCAGATATTCAGAGAGATG 696  
Db 610 AACTGCTGTACAACTAGAGCGCAAGCTTGAAGAGCGCACTTGTCCAAAGAGACATG 669  
Qy 697 CTGCTGTGCTGCTACCGCAGAGGCGCGCAGAGCACTGCGAGGCTGTGGGCGGCGCC 756  
Db 670 GTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 729  
Qy 757 CTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 816  
Db 730 CTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 789  
Qy 817 TGTGAGAGGAGAAACCGGCTGAGGCTTTCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTG 876  
Db 790 TGTGAGAGGAGAAACCGGCTGAGGCTTTCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTG 849  
Qy 877 CGGAGAGAGTGAAGGCTTTCAGAGCTGAGGCTGAGGCTTTCAGAGCTTTCAGAGCTTTC 924  
Db 877 CAAGCAAGTGAAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 897

RESULT 5  
US-09-386-653A-1  
; Sequence 1, Application US/09386653A  
; Patent No. 6458564  
; GENERAL INFORMATION:  
; APPLICANT: Darrow, Andrew  
; APPLICANT: Qi, Jenson  
; APPLICANT: Andrade-Gordon, Patricia  
; TITLE OF INVENTION: DNA encoding the novel human serine  
; FILE REFERENCE: ORT-1032  
; CURRENT APPLICATION NUMBER: US/09/386,653A  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 1110  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-386-653A-1

Query Match 15.0%; Score 165.2; DB 4; Length 1110;  
Best Local Similarity 53.9%; Pred. No. 1.8e-28;





Db	530	TGGCTACCAACCCAAACCATCAAGATGACATGCTGTGTGGCGCGCTTGGAGGAGGCAA	589
QY	723	CAGGGACACTCTGCAGGGGTGATCTTGGGGGGGCCCTGGTCTGTGAGGAAGCGGCCGCTG	782
Db	530	GAAAGATGCTTCCAAAGGGGGAATCTGGGGCGGCCCTGGTGTGTCTGTGGGTCACTGTG	649
QY	783	GTTCAGGACGAAATACACAGCTTTGGGTTTGGCTGTGACGGAAGAAACCGCCCTTGAAT	842
Db	650	GCTGAGGCGGGGGGTGATTCAGCTTGGGGGTGAGGGCTGTGTGCCCGCCAGAACCGCCCAATGT	709
QY	843	TTTCACCTGCTGTGGCTACTTATAGAGCAATGATAC	877
Db	710	CTACATCGGTGTCAACCGCCCAACCAATGATGCC	744
RESULT 7			
US-09-620-312D-431			
Sequence 431, Application US/09620312D			
Patent No. 6569662			
GENERAL INFORMATION:			
APPLICANT: Tang, Y. Tom			
APPLICANT: Liu, Chenghua			
APPLICANT: Asundi, Vinod			
APPLICANT: Zhang, Jie			
APPLICANT: Ren, Feiyan			
APPLICANT: Chen, Rui-hong			
APPLICANT: Zhao, Qing A.			
APPLICANT: Wehrman, Tom			
APPLICANT: Xue, Aйдong J.			
APPLICANT: Yang, Yonghong			
APPLICANT: Wang, Qian-Rui			
APPLICANT: Zhou, Ping			
APPLICANT: Ma, Yundong			
APPLICANT: Wang, Dunrui			
APPLICANT: Wang, Zhiwei			
APPLICANT: John Tillinghast			
APPLICANT: Drmanac, Radoje T.			
TITLE OF INVENTION: No. 6569662e1 Nucleic Acids and			
FILE REFERENCE: 784CIP2B			
CURRENT APPLICATION NUMBER: US/09/620,312D			
CURRENT FILING DATE: 2000-07-19			
PRIOR APPLICATION NUMBER: 09/552,317			
PRIOR FILING DATE: 2000-04-25			
PRIOR APPLICATION NUMBER: 09/488,725			
PRIOR FILING DATE: 2000-01-21			
NUMBER OF SEQ ID NOS: 1105			
SOFTWARE: pc FL_genes Version 1.0			
SEQ ID NO 431			
LENGTH: 1212			
TYPE: DNA			
ORGANISM: Homo sapiens			
FEATURE:			
NAME/KEY: CDS			
LOCATION: (135)..(1007)			
US-09-620-312D-431			
Query Match			
Best Local Similarity 53.6%; Score 162; DB 4; Length 1212;			
Matches 414; Conservative 0; Mismatches 340; Indels 18; Gaps			
QY	112	GCTGGGGGCCCCCGTACTAGGGGGGCCCTGAGCCCTGGCCCGCATCGTGGGGGCTCA	171
Db	192	GCAAGGACGACAGACGCTGTGTGTGCCCCAGAGTCTAAACGAATGTGTGGCGGCG	251
QY	172	AACGCGACGCGGGGACCTGTGGCTTTGGCAAGTAGGCTTGACACCATGAGAGTGGCCATC	231
Db	252	GACACGACGAGAGGGGCGAGTGGGCTCTGGGCAAGTCAAGATCAAGCGCAACGAAAGCCACTTC	311
QY	232	TGGGGGGGCTCCCTATATGCCCCCTCTGGGTCTCTCCGTGTCTACCTTT---CATG	288
Db	312	TGGGGGGGAGCTTATCGCGGAGCAATGTGGTCTGTGACGGCTGCGCATGCTTCCGCAAC	371

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OY 289 ACGAATGGGAGACGTTGAGAGCCCGCGCCGAGATGAGTACGATCTGCTGGACGCTCCAG 348
Db 372 ACCTGTAGAGCGTCCCTGTACCAAGGTCCTGCTGGGGGCAAGGACGTAATGACCGGGA 431
OY 349 GACGGGCCCCGTGAGACGAGCGCGCACACCCGCGAGTGGAGCCGCAATCGTGGTCCGCGCAAC 408
Db 432 CCAACGCGTATGTATGCCCGGGGTGAGGCAAGTGGAGCAACCCCTGTATCAAGGGCA-- 489
OY 409 TACAGCCAGTGGAGCTGGGGGCGCCGACCTCTGGCTCTGCTGGCCTTGAACCCCGCAGC 466
Db 490 -----CGGCTTCAAGCGCTACCGTGGCCCTGGTGAAGCTGAGGCGCAAGTGGCCC 535
OY 469 CTGGGCCCCCGGATGAGCGCTGTCTGGCCCGCCCGCGCTCCACACCGCTTTGCTGACAGCG 528
Db 540 TTCACCAATTACATCTCCCGGTGTGCTGCTGACCCCTCGGTGATCTTTGAGAGCGGCG 599
OY 529 ACCGCTCTGTGGGCCACCGGCTGGGGAGAGACGTCACAGAGAGCGAGATCTGTGCTCTCCC 588
Db 600 ATGAACTGCTGGGTGACATGCGTGGGGGAGCCCGCAGTGAAGAGAACTCTGTGCCGAACG 659
OY 589 TGGGTGTACAGAGAGTGAAGCTAAGGCTGCTGGGGAGAGCCACCTGTCAATGTCTTAC 648
Db 660 CGGATCTCGCAGAAATCTCGCTGTGCCCAATCAATGACACACCCAAAGTGCACCCGTGTTTAC 719
OY 649 AGCCAGCCCGGCTCCCTCAACTCACTCTCCAGATATT---GCCAGGAGATGCTGTGTGCT 705
Db 720 AGCAAGACACCGAGTTTGGCTTACCAACCCAAACCATCAAGATATGACATGCTGTGGCC 779
OY 706 GGTACCCAGAGAGGCGCCGAGGAGACCTTGCAGGGTGACTTGGGGGGGCCCTGTGTGT 765
Db 780 GGCTTCGAGAGAGGCGCAGAGAGATGCTTCAAGGGCGACTCGGGCGGCCCTGTGTGTGC 839
OY 766 GAGGAGAGCGCGCGCGCTGTGTTCAGGCGAGAAATCAACGTTTGGGTTTGGCTGTGACCG 825
Db 840 CTCGTGGGTCACTCGTGTGCTGACGCGGGGGTGAATAGCTGGGTGAGGCGCTGTGCGCG 899
OY 826 AGAAACCGCGCTCGAGATTTCATCTGCTGTGGCTTACTATGAGCGATGATAC 877
Db 900 CAGAACCGCCAGGTGTCTACATCCGTGTACCGCCACCGCCACCAACATGTGATCC 951

RESULT 8
US-09-023-942A-5
; Sequence 5, Application US/09023942A
; Patent No. 6478274
; GENERAL INFORMATION:
; APPLICANT: (US only) ANTALIS Toni Marie and HOOPER John David
; TITLE OF INVENTION: NOVEL MOLECULES
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 GARDEN CITY PLAZA
; CITY: GARDEN CITY
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,942A
; FILING DATE: 13-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: POS101/97
; FILING DATE: 13-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PP0422/97
; FILING DATE: 18-NOV-1997
; PRIOR APPLICATION DATA:

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APPLICATION NUMBER: International PCT Application  
FILING DATE: 13-FEB-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: DIGIGLIO, FRANK S  
REGISTRATION NUMBER: 31,346  
REFERENCE/DOCKET NUMBER: 11168  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (516) 742 4343  
TELEFAX: (516) 742 4366  
TELEX: 230 901 SANS UR  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1100 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 17..961  
US-09-023-942A-5

Query Match 14.7%; Score 161.6; DB 4; Length 1100;  
Best Local Similarity 52.9%; Pred. No. 1,1e-27;  
Matches 406; Conservative 0; Mismatches 344; Indels 18; Gaps 2;

130 TGGGGGCGCCCTGAGCCCTGCGCCGATGTGGGGGCTCAACGCGCAGCGGCGACC 189  
113 TGGGGCGCGAGCGGTCACTGTCGCGCATGTGGGAGAGAGACGCGAATCGGCGCGT 172  
190 TGGCCTTGGCAATGAGCCCTGCAACATGAGGTGGCGACATCTGGCGGGGCTCCCTCATC 249  
173 TGGCCGTGGAGGGAGAGCTGCGCCCTGTGGGATTCGCGATGACGAGAGAGCTGCTC 232  
250 GCCCCTCTCTGGGTCCTCTCCGCTGCTCACTGTTTATGACGATGGAAGAGCC 309  
233 AGCCACCGCTGGGCACTACAGCGCGGCGACATGCTTGAACCTATAGTACCTTAGAT 292  
310 GCGGCGAGTGTGCGTACTGCTGGGCGTGC-----ACTCCAGAGAGCGGCGCCCTG 360  
293 CCTCTCGGGGTGAGTGTCCAGTTGGCCAGCTGACTTCATGCGATCTTCTGGAGCTG 352  
361 GACGGGCGCGACACCGCGAGTGGCGCATGTGGTGGCGGCACTACACCAAGT 420  
353 CAGGCTTACTACACCGCTTACTTCTGATGATATCTATGTGAGCCCTGCTACTGAGG 412  
421 GAGCTTGGCGCGCAGCTGCGCTGCTGCGCTTCAACCGCGAGCTGAGCGCC 480  
413 AATTCAACCTATGACATTTGCTTGGTGAAGCTGTGACACTGTCACTAATAAC 472  
481 GTGTGCTGTCTGCGCTGCGCCCGCGCTCAACCGCTTGTGACGCGACCGCGTCTG 540  
473 ATCCAGCGCATGCTGTCCAGGCTTCCACATTTGAGTTGAGAGCGGAGACTGCTG 532  
541 GCCACCGCTGGGAGAGAGCTGCGAGAGGAGATCTTCTGCTTCCCTTGGGTACTAG 600  
533 GTACACTGCTGGGGGTATCAAAAGAGAGAGAGGACTGCACTTCCCAACCTCCAG 592  
601 GAAAGTGAAGTAAAGTGTCTGGGAGAGCGACCTGTCAATGTCTTACACCAACCGG 660  
593 GAGTTCAGGTCCCATCATATACTATGTGCAACACCACTTCTTCCAGTACAGT 652  
661 CCTTCAACTCACTCTCCAGATATTTGCCAGGATGTGTGCTGCTGCTTCCAGAGG 720  
653 TTCCGAGAGAC-----ATCTTTGAGACATGTTTGTCTGCGCAATGCCAAGGC 703  
721 CGCAGGAGACCTGCGCAGGTGACTTGGGGGCGCCCTGTGCTGTGAGAGAGCGCGC 780  
704 GCGAAGATGCTCTGCTTGGTGTGATGAGTGAAGCCCTTGGCTGTAAAGAGATGACTG 763  
781 TGGTTCAGGAGAGATCAACAGCTTTGGGTTTGGCTGTGAGAGAGAGAAACCGCTTGA 840  
764 TGGTATCAATTTGAGTGTGAGCTGGGAGTGGGCTGTGTGGGCCAATCGGCGCGT 823

841 GTTTTACTGTCTGTGCTTACTATGAGGATGATACGAGAGAGTGT 888  
824 GTCTACACCAATATACGACCACTTTGAGTGTATCCAGAAAGCTGATG 871

RESULT 9  
US-09-907-794A-256  
Sequence 256, Application US/09907794A  
Patent No. 6635468  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerltzen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gunney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kijavitt, Ivan J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/907,794A  
CURRENT FILING DATE: 2001-07-17  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/28565  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30911  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20

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; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 256
; LENGTH: 1100
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-907-794A-256

Query Match      14.7%; Score 161.6; DB 4; Length 1100;
Best Local Similarity 52.9%; Pred. No. 1.1e-27;
Matches 406; Conservative 0; Mismatches 344; Indels 18; Gaps 2;

QY 130 TGGGGGCGCCCTTACGCTTGGCCCGCATCTGTGGGGGCTCAAAAGCGCGAGCCGCGCAC 189
    |||
Db 116 TGGGCGCCGAGGGTGCATCGCGGCGCATCGGGGTGAGAGAGAGCGCGAAGCTCGGGGCT 175
    |||

QY 190 TGGGCTTGGCAAGTGAAGCTGACCAATGAGAGTGGCCATCTGGGGGGGCTCCCTCATC 249
    |||
Db 176 TGGCGGTGGAGGGAGGCTGCGCTGTGGGATTCGCGATGCGAGAGTGAAGCTGCTC 235

QY 250 GCGCCCTCTGAGCTCTCTCCGCTGCTCACTGTTCATGACGAATGGAGCGTGGAGCCC 309
    |||
Db 236 AGCCACCGCTGGGACCTCAAGCGCGCGGACCTGCTTGAACCTATAGGACCTTAGTAT 295

QY 310 GCGGCGGAGTGTGGTACTGCTGGGGCTGC-----ACTCCGAGAGCGGCGCTG 360
    |||
Db 296 CCGGCGGAGTGTGGTACTGCTGGGGCTGC-----ACTCCGAGAGCGGCGCTG 355

QY 361 GACGCGCGGCGCACACCGCGGAGTGGCGCGCATCGTGGCGCGGCACTACAGCCAGT 420
    |||
Db 356 CAGGCTTACTACACCGGTTACTTGTATGATATCTATGAGCGCTCGCTACCTGAGG 415

QY 421 GAGCTGGCGCGGACCTGGCGCTGCGCTGGCGCTCAACCGCGAGCGCTGGCGCGC 480
    |||
Db 416 AATTCACCTTATGACATGCTGCTGGTGAAGCTGTCTGACCTGTCACTTAACCTAAAC 475

QY 481 GTGGGCTGTCTGCTGCTGCGCGCTCAACCGCTTGTGCAAGCGAGCGCGCTGCTG 540
    |||
Db 476 ATTCAGCGCATCTGTCTGCGCGCTCACTTTGAGTTGAGAACCGGACAGACTGCTGG 535

QY 541 GCGCGCGGCTGGGAGAGTGCAGAGAGGCAATCTCTGCGCTCCCTGGGCTGTACAG 600
    |||
Db 536 GTGACTGCTGGGAGTATTAAGAGAGTAAAGGAGTAAAGGAGTCCCTCCACACCTCCAG 595

QY 601 GAACTGAGCTAAGGCTGTGGGAGGCGACCTGTCTATGTCTTACAGCGAGCGGCT 660
    |||
Db 596 GAACTTGAAGTGCAGCATTAACAACTCTATGTGCAACCACTCTTCTTAAGTACAGT 655

QY 661 CCTTCAACTCACTCTCCAGATATTCAGAGGATGCTGTGCTGCTACCCAGAGGCT 720
    |||
Db 656 TTCCGCAAGGAC-----ATCTTGGAGACATGTTGTGCTGGGCAAGCCCAAGGC 706

QY 721 CGGAGGAGCACTTCCAGGAGTGACTCTGGGGGGGCGCCCTGTGTGAGAGAGGGCGCC 780
    |||
Db 707 GGGAGGAGTGTCTCTTGGGAGTCTCAAGTGAACCTTGGGCTTGAACAAATAGGACTG 766

QY 781 TGGTTCAGGAGGAGATCAACAGCTTGGGTTTGGCTGTGAGAGGAGAAACCGGCTGGA 840
    |||
Db 767 TGGTATGAGATTTGAGTGTGAGCTGGGAGTGGGCTGTGTGCTGGCCCAATCGGCGCT 826

QY 841 GTTTTCACTGCTGTGGCTACTATGAGGAGTGAATACGGAGGAGGCTG 888
    |||
Db 827 GTCTACACCAATATACGACCACTTGAAGTGAATCAAGAGCTGATG 874

RESULT 10
US-09-905-125A-256
; Sequence 256, Application US/0905125A
; Patent No. 6664376
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
```

```

; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoli, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: US/09/905,125A
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 256
; LENGTH: 1100
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-905-125A-256

Query Match      14.7%; Score 161.6; DB 4; Length 1100;
Best Local Similarity 52.9%; Pred. No. 1.1e-27;
Matches 406; Conservative 0; Mismatches 344; Indels 18; Gaps 2;
```

```

QY 130 TGGGGGCGCCCTGAGCCCTGCGCCGATCTGCGGGGGGCTCAAGCGGAGCGGCGACC 189
DB 116 TGGGGGCGGAGGAGTCAAGTCTGCGGAGTGTGGGGAGAGAGAGCCGCAACTCGGGCGCT 175
QY 190 TGGCCCTTGGCAAGTGAAGCTGACCAATGAGAGGGGCAATCTGCGGGGGCTCCCTCATC 249
DB 176 TGGCCCTTGGCAAGGAGGAGCTGCGGCTGTGGGATTCGCAAGTATGGGATGAGGCTGCTC 235
QY 250 GCGCCCTCTGCGGCTCTCTGCGGCTGCTCACTGTTTCATGACGAATGGAGAGCTTGAAGCCC 309
DB 236 AGCCACCGCTGGGAGATCTACAGGCGGCGCACTGCTTGAACCTATGATCACTTATGAT 295
QY 310 GCGGCGGAGTGTGCTGCTGCTGCGGCGGCGC-----ACTCCAGAGAGCGGGCCCTG 360
DB 296 CCTTCGCGGATGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 355
QY 361 GACGCGGCGCACACCGGCGGAGTGGCGGCGGATGATGATGATGATGATGATGATGATGATG 420
DB 356 GAGGCTACTACACCGGCTTACTTGTGATGATGATGATGATGATGATGATGATGATGATGAT 415
QY 421 GAGCTGGGCGCGGAGCTGCGGCTGCTGCGGCTGCTGCGGCTGCTGCGGCTGCTGCGGCTG 480
DB 416 AATTCACTCTATGACATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 475
QY 481 GTGTGGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540
DB 476 ATCCAGCCGATCTGTCTCAAGGCTTCAAGTTTGAATTTGAAGACCGGAGACAGCTGCTG 535
QY 541 GCGACCGGCTGGGAGAGCTGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600
DB 536 GTGACGCGCTGGGAGAGATCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 595
QY 601 GAGTGAAGCTAAGGCTGCTGCGGCGGAGGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
DB 596 GAAGTCAAGTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 655
QY 661 CCTTCAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 720
DB 656 TTCCGCAAGGAGC-----ATCTTGGAGAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 706
QY 721 CGCAGGAGACCTGCGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
DB 707 GGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 766
QY 781 TGGTTCAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
DB 767 TGGTATCAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAG 826
QY 841 GTTTTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 888
DB 827 GTCTACACCAATATACGCGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 874

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RESULT 11  
US-09-902-775A-256

Sequence 256, Application US/09902775A  
Patent No. 6686431  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Geritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.

```

APPLICANT: Hillan, Kenneth, J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902,775A
PRIOR FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR FILING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US00/00219
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 256
LENGTH: 1100
TYPE: DNA
ORGANISM: Homo Sapien
US-09-902-775A-256
Query Match 14.7%; Score 161.6; DB 4; Length 1100;
Best Local Similarity 52.9%; Pred. No. 1,1e-27;
Matches 406; Conservative 0; Mismatches 344; Indels 18; Gaps 2;
QY 130 TGGGGGCGCCCTGAGCCCTGCGCCGATCTGCGGGGGGCTCAAGCGGAGCGGCGACC 189
DB 116 TGGGGGCGGAGGAGTCAAGTCTGCGGAGTGTGGGGAGAGAGAGCCGCAACTCGGGCGCT 175
QY 190 TGGCCCTTGGCAAGTGAAGCTGACCAATGAGAGGGGCAATCTGCGGGGGCTCCCTCATC 249
DB 176 TGGCCCTTGGCAAGGAGGAGCTGCGGCTGTGGGATTCGCAAGTATGGGATGAGGCTGCTC 235
QY 250 GCGCCCTCTGCGGCTCTCTGCGGCTGCTCACTGTTTCATGACGAATGGAGAGCTTGAAGCCC 309
DB 236 AGCCACCGCTGGGAGATCTACAGGCGGCGCACTGCTTGAACCTATGATCACTTATGAT 295
QY 310 GCGGCGGAGTGTGCTGCTGCTGCGGCGGCGC-----ACTCCAGAGAGCGGGCCCTG 360

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Db 236 CCTTCGGGTGATGATGTCAGTTTGGCCAGCTGACTTCATGCCATTCCTTCTGGAGCCG 355  
Qy 361 GACGGCGCGCACACCCGCGAGTGGCCGCGCATGATGTCGCGGCAATACAGCAAGG 420  
Db 356 CAGGCTTACTACACCCGTTACTTCTGATGATATCTATCTAGCCCTGCTACCTGGGG 415  
Qy 421 GAGCTGGGGCGGACCTGGCCCTGCTGGCCCTGAGCTCAACCGGCGAGCTGGGCCCGC 480  
Db 416 AATTCACCTTATGATGATGCTTGGTGAAGCTGTGCACTGTCACTACCTAACAC 475  
Qy 481 GGTGGGCTGTGCTGCTGCGCCGCGCTTCAACCGCTTGTGCAAGGCAACCGCTTGG 540  
Db 476 ATCCAGCCCATCTGCTCCAGGCTCCCAATTTGAATTTGAACACCGGACAGACTGCTGG 535  
Qy 541 GCCACCGGCTGGGAGAGATCCGACGAGGAGATCTCTGCGCTCCCGCTGGGTGTAGAG 600  
Db 536 GTGACTGCTGGGGGTATCATCAAGAGATGAGGACCTGCCATCTTCCCAACCTCCAG 595  
Qy 601 GAAGTGAAGCTAAGGCTGTGGCGAGGCACTGTCAATGTCTTACAGCGAGCCGCT 660  
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Db 656 TTCCGCAAGAC-----ATCTTGAAGACATGTTGTGCTGGCAACGCCCAAGGC 706  
Qy 721 CGCAGGACACCTGCGCAGGCTGACTCTGGGGGGCCCTGTGCTGTGAGAGGAGCGCGC 780  
Db 707 GGGAGAGATGCTGCTGCTGGGTGACTCAAGTGAACCTTGGCTGTGAACAAGATGACTG 766  
Qy 781 TGGTTCAGGAGAAATCAACAGCTTTGGGTTGGCTGTGAGACGAGAAACCGCCCTGA 840  
Db 767 TGGTATCAGATTGAGTGTGAGCTGGGAGTGGGCTGTGGTGGGCCCAATCGGCCGT 826  
Qy 841 GTTTTCACTGCTGTGCTTACTATAGGCAATGATACCGGAGCAGGTG 888  
Db 827 GTTACACCAATATCAAGCCACCACTTTGATGATGACGAGAGCTGATG 874

RESULT 12  
US-09-008-271A-15  
Sequence 15, Application US/0908271A  
Patent No. 6203979  
GENERAL INFORMATION:  
APPLICANT: Bandman, Olga  
Hillman, Jennifer L.  
vue, Henry  
Guegler, Karl J.  
Corley, Neil C.  
Tang, Tom Y.  
Shah, Purvi  
TITLE OF INVENTION: HUMAN PROTEASE MOLECULES  
NUMBER OF SEQUENCES: 24  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Dr.  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: PASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/008,271A  
FILING DATE: 16-Jan-1998  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: <Unknown>  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:

/ NAME: Mohan-Peterson, Sheela  
/ REGISTRATION NUMBER: 41,201  
/ REFERENCE/DOCKET NUMBER: PF-0458 US  
/ TELECOMMUNICATION INFORMATION:  
/ TELEPHONE: 650-845-0555  
/ TELEFAX: 650-845-4166  
/ INFORMATION FOR SEQ ID NO: 15:  
/ SEQUENCE CHARACTERISTICS:  
/ LENGTH: 1081 base pairs  
/ TYPE: nucleic acid  
/ STRANDEDNESS: single  
/ TOPOLOGY: linear  
/ IMMEDIATE SOURCE:  
/ LIBRARY: PROSTV03  
/ CLONE: 789927  
/ SEQUENCE DESCRIPTION: SEQ ID NO: 15 :  
/ US-09-008-271A-15  
  
Query Match 14.5%; Score 160; DB 3; Length 1081;  
Best Local Similarity 52.7%; Pred. No. 2,6e-27;  
Matches 405; Conservative 0; Mismatches 345; Indels 18; Gaps 2;  
  
Qy 130 TCGGCGCCCTGAGCCCTCGCCCGCATGTGGGGGCTCAACGCGCAGCGGCAAC 189  
Db 136 TCGGCGCGCGGTCATCACTCGCGCATGTGGGTGAGAGAGAGCGGAACTCGGGCGT 195  
Qy 190 TGGCTTGGCAAGTGAAGCTGACCATGAGAGTGGCCATCTGCGGGGGCTCCCTCATG 249  
Db 196 TGGCTGTGCGAGGAGAGCTGCGCTGTGGATTCACGATGCGAGTGAAGCTGTCTC 255  
Qy 250 GCGCCCTTCGAGGCTCTCTCGCTGCTCACTGTTTCATGACGAAATGAGACGTTGAGGCC 309  
Db 256 AGCCACGCTGGGACATCAGCGCGCGGCGCATGCTTTGAACCTATGATGACCTTATGAT 315  
Qy 310 GCGGCGGAGTGTGGTACTGCTGGCGCTG-----ACTCCAGAGAGCGGCCCTG 360  
Db 316 CCTTCGGGTGAGTGTTCAGATTGGCCAGTGACTTCCATGATCCATCTTGTGAGCCTG 375  
Qy 361 GACGCGCGCACACCCGCGAGTGGCGCCATCGTGGTGGCGGCCCACTACAGCCAAATG 420  
Db 376 CAGGCTTACTACACCCGTTACTTGTATGAAATATCTATCTGAGCCCTGCTACTGGGG 435  
Qy 421 GAGCTGGCGCGCACCTGGCCCTGCGCTGACCTTCAACCGCGAGCTGGGCCCGCC 480  
Db 436 AATTCACCCATATGACATGCTTGTGTAAGCTGTGTGACCTGTCACTACCTAACAC 495  
Qy 481 GTTGGCTGTGCTGCTGCGCCGCGCTCAACCGCTTGTGACAGGACCGGCTGTGG 540  
Db 496 ATCCAGCCCATCTGTCTCAGGCTCCACATTTGAGTTGAGAACCGGACAGACTGCTGG 555  
Qy 541 GCCACCGGCTGGGAGAGTCCAGAGGAGAGATCCCTGCTCCCTCGGGGTGTACAG 600  
Db 556 GTGACTGCTGGGGGTATCAATAAGAGATGAGGACCTGCCATCTCCCAACCTCCAG 615  
Qy 601 GAAGTGAAGCTAAGGCTGTGGGAGGACCTGTCAATGTCTTCAAGCAGCCCGGT 660  
Db 616 GAAGTTCAAGTGTGCGCATATTAACAATCTATGAGCAACACCTTCTCAAGTACAGT 675  
Qy 661 CCTTCAACCTGACTCTCCAGATATTTGCCAGGAGTCTGTGCTGGCTTACCGAGAGGC 720  
Db 676 TTCCGCAAGAC-----ATCTTGAAGACATGTTGTGTGGCAAGGCCCAAGGC 726  
Qy 721 CGCAGGACACCTGCGAGGCTGCTGGGGGGCCCTGTGCTGTGAGAGAGGCGCGC 780  
Db 727 GGGAGAGATGCTCTTCTGCTGCTGAGTCAAGTGAACCTTGGCTGTGAACAAGATGACTG 786  
Qy 781 TGGTTCAGGAGAAATCACAGCTTTGGGTTGGCTGTGAGACGAGAAACCGCCCTGA 840  
Db 787 TGGTATCAGATTGAGTGTGAGCTGGGAGTGGGCTGTGGTGGGCCCAATCGGCCGT 846  
Qy 841 GTTTTCACTGCTGTGCTTACTATAGGCAATGATACCGGAGCAGGTG 888  
Db 847 GTTACACCAATATCAAGCCACCACTTTGATGATGATCCAGAGCTGATG 894





TELEPHONE: (516) 742 4343  
TELEFAX: (516) 742 4366  
TELEX: 230 901 SAMS UR  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1094 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 17..955  
US-09-023-942A-3

Query Match 14.0%; Score 154.8; DB 4; Length 1094;  
Best Local Similarity 52.2%; Pred. No. 3.9e-26;  
Matches 398; Conservative 0; Mismatches 352; Indels 12; Gaps 2;

130 TGGCGGCGCCCTGAGCCCTCGGCGCCGATCGGCGGCGCTCAACGCGCAGCCGCGCACC 189  
113 TGGCGGCGCGCGGTATACAGTCGCGCATCGGCGTGAAGAGAGCGCGAAGCTCGGCGGT 172  
190 TGGCTTGGCAAGTGAAGCTTGACCATGAGGTGCGCATCTGCGGCGGCTCCCTCATC 249  
173 TGGCGGTGCGAGGGAGCGCTGCGCTGCGGATCCGATGCGAGTGAAGCTGCTC 232  
250 GCGCCCTCTGGGCTCTCGCGCTGCTCATCTTTCAAGAGAAATGGAGAGCTGAGGCGC 309  
233 AGCCACCGCTGGGCACTACGCGGCGCATCTGCTTTGAAACTGACCTTATGATGATCCCTCC 292  
310 G---CGGCGAGTGTGCGTACTGCTGCGGCGTCACTCCAGAGCGGCGCCCTGAGCGAC 366  
293 GGGTGGATGATGATTTGGCGAGCTGCTTCAGCATCTTGTGAAGCTGAGAGCTGAGGCGC 352  
367 GCGCACACCGCGCGAGTGGCGCGCATCTGCTGCGCGCGCAACTACAGCGCAAGTGAAGCTG 426  
353 TACTACACCGCTTACTGTGATCGAATATCTATCTGAGACCGCTCGTACCTGCGGAAATCA 412  
427 GCGCGCGAGCTGGCGCTGCTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 486  
413 CCGATGACATTTGCTTGTGTGAAGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 472  
487 CCGTGTGCTGCTGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 546  
473 CCGATCTGCTGCTGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 532  
547 GCGTGGGAGAGCTGCGAGAGGAGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 606  
533 GCGTGGGAGTATCATGAAGAGATGAGCATGCGATCTCCCAACACCTCCAGAGAGTT 592  
607 GAGCTAAGGCTGCTGGGAGAGGCGCATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 666  
593 CAGGTGCGATCATTAACAATCTATGTCAGACCACTCTTCTCAAGTAAAGTTTCCGC 652  
667 AACCTCACTTCCAGATATTTGCGAGAGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 726  
653 AAGAGC-----ATCTTGGAGACATGTTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 703  
727 GACACTTGCAGAGTGAATCTTGGGAGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 786  
704 GATGCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 763  
787 CAGGAGAGATACACAGCTTTGGGTTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 846  
764 CAGATTTGAGTGTGAGCTGGGAGATGGGCTGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 823  
847 ACTGCTGTGCTTACTATGAGCATGATACCGAGAGAGTGG 888  
824 ACCAATATCAGCCACACCTTTAGTGAATCCAGAGCTGATG 865

RESULT 15

US-09-386-653A-8  
Sequence 8, Application US/09386653A  
Patent No. 6458564  
GENERAL INFORMATION:  
APPLICANT: Darrow, Andrew  
APPLICANT: Darrow, Andrew  
TITLE OF INVENTION: DNA encoding the novel human serine  
TITLE OF INVENTION: protease T  
FILE REFERENCE: ORT-1032  
CURRENT APPLICATION NUMBER: US/09/386,653A  
CURRENT FILING DATE: 1999-08-31  
NUMBER OF SEQ ID NOS: 11  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 8  
LENGTH: 1130  
TYPE: DNA  
ORGANISM: Artificial Sequence  
FEATURE:  
OTHER INFORMATION: Description of Artificial Sequence: Fusion gene of  
OTHER INFORMATION: Protease T in a zymogen activation vector  
US-09-386-653A-8

Query Match 14.0%; Score 153.8; DB 4; Length 1130;  
Best Local Similarity 53.9%; Pred. No. 6.6e-26;  
Matches 392; Conservative 0; Mismatches 317; Indels 18; Gaps 3;

157 ATCGGGGGGGCTCAACGCGCAGCGCGCTGCGCTTGGCAAGTGAAGCTGACCAT 216  
166 ATCGTGGGGCTATGCTTGAAGAGGCGCAGATGCGCTTGGCAAGTGAAGCTGACCAT 225  
217 GAGGTGGCGCATCTGCGGCGGCTCCCTCATGCGCCCTCGGCTCTGCGCTGCT 276  
226 AAGGAGACCATCTTGTGCGGAGGAGCGCTTACGCGAGAGAGTGGTCTTGAACGCGCTGCG 285  
277 CACTGTT---CATGACGAATGGACCTTGAAGCGCGCGCGCGAGTGGTGGTACTGCTG 333  
286 CACTGCTTCCGACACCTCTGAGAGCTGCGCTGATCAAGATCTGCTGCGGCGAGGAG 345  
334 GCGGTGACCTCCAGAGAGCGGCGCTGAGCGCGCGGACACCGCGAGTGGCGCGCATC 393  
346 CTAGTGGCGCGGAGACACAGCTATGATGCGCGGAGAGAGAGTGAAGCAACCC 405  
394 GTGTGCGCGCACTACAGCAAGTGAAGTGGCGCGCGCATGCGCTGCTGCGCTG 453  
406 CTGATACAGGCA-----CGGCTTCCAGCGCTGAGTGGCGCTGCTGCTGCTGCTGCTG 453  
454 GCTTCACCGCGCAGCTGCGCGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 513  
454 GAGGACACAGGCGCTTACCAATTAATCTCTCCCGTGTGCTGCTGCTGCTGCTGCTGCTGCTG 513  
514 CGCTTGGAGAGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 573  
514 ATCTTGGAGAGGCGCATATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 573  
574 CCTGCTCTCTCCCTGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 633  
574 CTCTGCGCGAGCGCGGATCTGCTGAGAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 633  
634 TGTCAATGTCTTACAGCAGCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 690  
634 TGAACCTGCTTACAGAGAGAGACCGAGTTTGGCTTACCAACCAAAACATCAAGAT 693  
691 GGGATGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 750  
694 GACATGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 753  
751 GCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 810  
754 GCGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 813  
811 TTTGCTGTGAGAGAGAAACCGCGCTGAGTTTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 870

Db 814 GAGGCTGTGCCCCGCGCAGAACCGCCGAGTGTCTACATCCGTGTCAACGCCACACAAAC 873

Qy 871 TGGATAC 877

Db 874 TGGATCC 880

Search completed: August 4, 2004, 15:35:58  
Job time : 110 secs





PRIOR APPLICATION NUMBER: 60/272,817  
PRIOR FILING DATE: 2001-03-02  
PRIOR APPLICATION NUMBER: 60/291,186  
PRIOR FILING DATE: 2001-05-15  
PRIOR APPLICATION NUMBER: 60/303,231  
PRIOR FILING DATE: 2001-07-05  
PRIOR APPLICATION NUMBER: 60/305,060  
PRIOR FILING DATE: 2001-07-12  
PRIOR APPLICATION NUMBER: 60/318,405  
PRIOR FILING DATE: 2001-09-10  
PRIOR APPLICATION NUMBER: 60/318,700  
PRIOR FILING DATE: 2001-09-12  
NUMBER OF SEQ ID NOS: 227  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 45  
LENGTH: 1102  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-037-417-45

Query Match 100.0%; Score 1102; DB 13; Length 1102;  
Best Local Similarity 100.0%; Pred. No. 3.9e-288; Mismatches 0; Indels 0; Gaps 0;  
Matches 1102; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGCCCTTGTCTGGGCGCATGAGCCCAAGAGGGGCTCTGGGCGCTGGGCGCTGGGCGCT 60  
DB 1 GGGCCCTTGTCTGGGCGCATGAGCCCAAGAGGGGCTCTGGGCGCTGGGCGCTGGGCGCT 60  
QY 61 GTGGCCAAATTCGACTCACTCACTTAAAGGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 120  
DB 61 GTGGCCAAATTCGACTCACTCACTTAAAGGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 120  
QY 121 CCCCCGTTACTGAGGCGCGCTGAGCGCTCGGCGCGCTGAGGCGCGCTGAGGCGCGCTGAG 180  
DB 121 CCCCCGTTACTGAGGCGCGCTGAGCGCTCGGCGCGCTGAGGCGCGCTGAGGCGCGCTGAG 180  
QY 121 CCCCCGTTACTGAGGCGCGCTGAGCGCTCGGCGCGCTGAGGCGCGCTGAGGCGCGCTGAG 180  
DB 121 CCCCCGTTACTGAGGCGCGCTGAGCGCTCGGCGCGCTGAGGCGCGCTGAGGCGCGCTGAG 180  
QY 181 CCGGCGCACTGAGCGCTTGGCAAGTGAAGCTGCAACATGAGAGGTGGCCACATCTGGCGG 240  
DB 181 CCGGCGCACTGAGCGCTTGGCAAGTGAAGCTGCAACATGAGAGGTGGCCACATCTGGCGG 240  
QY 181 CCGGCGCACTGAGCGCTTGGCAAGTGAAGCTGCAACATGAGAGGTGGCCACATCTGGCGG 240  
DB 181 CCGGCGCACTGAGCGCTTGGCAAGTGAAGCTGCAACATGAGAGGTGGCCACATCTGGCGG 240  
QY 241 TCCCTCATGCGCCCTCTCTGGGCTCTCTCCGCTGCTCACTGTTTATGACGAATGGAGCG 300  
DB 241 TCCCTCATGCGCCCTCTCTGGGCTCTCTCCGCTGCTCACTGTTTATGACGAATGGAGCG 300  
QY 241 TCCCTCATGCGCCCTCTCTGGGCTCTCTCCGCTGCTCACTGTTTATGACGAATGGAGCG 300  
DB 241 TCCCTCATGCGCCCTCTCTGGGCTCTCTCCGCTGCTCACTGTTTATGACGAATGGAGCG 300  
QY 301 TTGAGACCGCGCGCGCGAGTGGTGGTGAAGCTGAGCGCTGAGCGCGCTGAGCGCGCTGAG 360  
DB 301 TTGAGACCGCGCGCGCGAGTGGTGGTGAAGCTGAGCGCTGAGCGCGCTGAGCGCGCTGAG 360  
QY 301 TTGAGACCGCGCGCGCGAGTGGTGGTGAAGCTGAGCGCTGAGCGCGCTGAGCGCGCTGAG 360  
DB 301 TTGAGACCGCGCGCGCGAGTGGTGGTGAAGCTGAGCGCTGAGCGCGCTGAGCGCGCTGAG 360  
QY 361 GAGCGCGCGCAACCGCGCGAGTGGTGGTGAAGCTGAGCGCTGAGCGCGCTGAGCGCGCTGAG 420  
DB 361 GAGCGCGCGCAACCGCGCGAGTGGTGGTGAAGCTGAGCGCTGAGCGCGCTGAGCGCGCTGAG 420  
QY 361 GAGCGCGCGCAACCGCGCGAGTGGTGGTGAAGCTGAGCGCTGAGCGCGCTGAGCGCGCTGAG 420  
DB 361 GAGCGCGCGCAACCGCGCGAGTGGTGGTGAAGCTGAGCGCTGAGCGCGCTGAGCGCGCTGAG 420  
QY 421 GAGCGCGCGCGCGCGAGTGGTGGTGAAGCTGAGCGCTGAGCGCGCTGAGCGCGCTGAGCG 480  
DB 421 GAGCGCGCGCGCGCGAGTGGTGGTGAAGCTGAGCGCTGAGCGCGCTGAGCGCGCTGAGCG 480  
QY 421 GAGCGCGCGCGCGCGAGTGGTGGTGAAGCTGAGCGCTGAGCGCGCTGAGCGCGCTGAGCG 480  
DB 421 GAGCGCGCGCGCGCGAGTGGTGGTGAAGCTGAGCGCTGAGCGCGCTGAGCGCGCTGAGCG 480  
QY 481 GTGTGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540  
DB 481 GTGTGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540  
QY 481 GTGTGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540  
DB 481 GTGTGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540  
QY 541 GCCACCGGCTGGGAGAGCTGCAAGAGGCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600  
DB 541 GCCACCGGCTGGGAGAGCTGCAAGAGGCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600  
QY 541 GCCACCGGCTGGGAGAGCTGCAAGAGGCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600  
DB 541 GCCACCGGCTGGGAGAGCTGCAAGAGGCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600  
QY 601 GAGTGGAGCTGAAGCTGCTGAGGCGAGGCGACCTGCTCAATGCTTCAAGAGGCGAGCGCT 660  
DB 601 GAGTGGAGCTGAAGCTGCTGAGGCGAGGCGACCTGCTCAATGCTTCAAGAGGCGAGCGCT 660  
QY 601 GAGTGGAGCTGAAGCTGCTGAGGCGAGGCGACCTGCTCAATGCTTCAAGAGGCGAGCGCT 660  
DB 601 GAGTGGAGCTGAAGCTGCTGAGGCGAGGCGACCTGCTCAATGCTTCAAGAGGCGAGCGCT 660  
QY 661 CCGTTCACCTCACTCTCAAGATATGCGCAGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720  
DB 661 CCGTTCACCTCACTCTCAAGATATGCGCAGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGT 720  
QY 721 CGCAGGAGCACTGCGCAGGAGTGAATCTGTGGGCGCGCGCTGCTGCTGCTGCTGCTGCTGCT 780  
DB 721 CGCAGGAGCACTGCGCAGGAGTGAATCTGTGGGCGCGCGCTGCTGCTGCTGCTGCTGCTGCT 780

DB 721 CGCAGGAGCACTGCGCAGGAGTGAATCTGTGGGCGCGCGCTGCTGCTGCTGCTGCTGCTGCT 780  
QY 781 TGGTTCAGGAGGAGATCAACAGCTTGGGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 840  
DB 781 TGGTTCAGGAGGAGATCAACAGCTTGGGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 840  
QY 781 TGGTTCAGGAGGAGATCAACAGCTTGGGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 840  
DB 781 TGGTTCAGGAGGAGATCAACAGCTTGGGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 840  
QY 841 GTTTTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
DB 841 GTTTTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
QY 841 GTTTTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
DB 841 GTTTTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900  
QY 901 CTTGGGCTGCTGCTTCCCAAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 960  
DB 901 CTTGGGCTGCTGCTTCCCAAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 960  
QY 901 CTTGGGCTGCTGCTTCCCAAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 960  
DB 901 CTTGGGCTGCTGCTTCCCAAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 960  
QY 961 GCATTTCGATGCTGCGCAGATGCTTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1020  
DB 961 GCATTTCGATGCTGCGCAGATGCTTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1020  
QY 961 GCATTTCGATGCTGCGCAGATGCTTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1020  
DB 961 GCATTTCGATGCTGCGCAGATGCTTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1020  
QY 1021 TCACTGGGACCAAAAGCTTGTCTCCCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080  
DB 1021 TCACTGGGACCAAAAGCTTGTCTCCCTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080  
QY 1081 TGGGCGTTTGTATGGGCGCTTCC 1102  
DB 1081 TGGGCGTTTGTATGGGCGCTTCC 1102

RESULT 3  
US-09-888-615-52  
Sequence 52, Application US/0988615  
Patent No. US20020064856A1

GENERAL INFORMATION:  
APPLICANT: PLOWMAN, GREGORY  
APPLICANT: WHYTE, DAVID  
APPLICANT: CAENREBEL, SEAN  
APPLICANT: CHARVDEZAK, GLEN  
APPLICANT: MANNING, GERARD  
APPLICANT: SUDARSHAN, SUCHA  
TITLE OF INVENTION: NOVEL PROTEASES  
FILE REFERENCE: 038602/1214  
CURRENT APPLICATION NUMBER: US/09/888,615  
PRIOR FILING DATE: 2001-06-26  
PRIOR APPLICATION NUMBER: 60/214,047  
PRIOR FILING DATE: 2000-06-26  
NUMBER OF SEQ ID NOS: 150  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 52  
LENGTH: 2457  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-888-615-52

Query Match 74.0%; Score 815.6; DB 9; Length 2457;  
Best Local Similarity 99.5%; Pred. No. 1.2e-210; Mismatches 4; Indels 0; Gaps 0;  
Matches 818; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 124 CCGTACTGCGGCGCGCTGAGCGCTCGGCGCGCATGCGGCGCGCTCAAGCGCGAGCGCG 183  
DB 106 CTGAGCTGCGGCGCGCGCTGAGCGCTCGGCGCGCATGCGGCGCGCTCAAGCGCGAGCGCG 165  
QY 184 GGCACCTGCGCTTGGCAAGTGAAGCTGCAACATGAGAGGCTGCAATCTGCGGCGCTTCC 243  
DB 166 GGCACCTGCGCTTGGCAAGTGAAGCTGCAACATGAGAGGCTGCAATCTGCGGCGCTTCC 225  
QY 244 CTGATGCGCGCTCTCTGCGGCTCTCTCGGCGCGCTGCACTGTTTCAAGAGGCGAGCT 303  
DB 226 CTGATGCGCGCTCTCTGCGGCTCTCTCGGCGCGCTGCACTGTTTCAAGAGGCGAGCT 285  
QY 304 GAGCGCGCGCGAGTGTGCTGCTGAGGCGCTGCACTGCGGCGCGAGCGCGCGCTGAGAC 363  
DB 286 GAGCGCGCGCGAGTGTGCTGCTGAGGCGCTGCACTGCGGCGCGAGCGCGCGCTGAGAC 345

QY	364	GGCGGCAACA	CCCGGCGAGTGGCCGCAC	CTGTGGTGGCCGGCAAC	CTACAGCCAAAGTGGAG	423
Dp	346	GGCGGCAACA	CCCGGCGAGTGGCCGCAC	CTGTGGTGGCCGGCAAC	CTACAGCCAAAGTGGAG	405
QY	424	CTGGGCGCCGA	CTTGAGCCCTGTGGGCG	CTTGAGCCCTTGAC	CCCGCAGACCTTGAGCG	483
Dp	406	CTGGGCGCCGA	CTTGAGCCCTGTGGGCG	CTTGAGCCCTTGAC	CCCGCAGACCTTGAGCG	465
QY	484	TGGGCTGTGTG	CTTGGCCCGCGGCTTC	ACGCTTTCGTG	CAAGGACCGGCTTGGGCG	543
Dp	466	TGGGCTGTGTG	CTTGGCCCGCGGCTTC	ACGCTTTCGTG	CAAGGACCGGCTTGGGCG	525
QY	544	ACCGGCTGGGAG	AGCGTCCAGGAGGCA	GATCTCTGGCTCT	CCCCCTGGGTGTCA	GAGAA 603
Dp	526	ACCGGCTGGGAG	AGCGTCCAGGAGGCA	GATCTCTGGCTCT	CCCCCTGGGTGTCA	GAGAA 585
QY	604	GTTGAGCTTA	AGGCTGTGGGCGAGG	CCACCTTGCAATG	CTCTTACAGCAGCCCGGTCC	663
Dp	586	GTTGAGCTTA	AGGCTGTGGGCGAGG	CCACCTTGCAATG	CTCTTACAGCAGCCCGGTCC	645
QY	664	TTTCAACCTCA	CTTCTCCAGATAT	TTTGCAGGGAATG	CTGTGCTGGCTTAC	CCCAAGGGCCGC 723
Dp	646	TTTCAACCTCA	CTTCTCCAGATAT	TTTGCAGGGAATG	CTGTGCTGGCTTAC	CCCAAGGGCCGC 705
QY	724	AGGACACCTGC	ACAGGATGACTCT	TGGGGGGCCCTTG	CTGTGAGGAAAGGCGGCTGG	783
Dp	706	AGGACACCTGC	ACAGGATGACTCT	TGGGGGGCCCTTG	CTGTGAGGAAAGGCGGCTGG	765
QY	784	TTTCCAGGCA	GAATCACCAGCTTT	TGGGTTTGGCTGTG	ACGAGAAACCGCCCTGGAGTT	843
Dp	766	TTTCCAGGCA	GAATCACCAGCTTT	TGGGTTTGGCTGTG	ACGAGAAACCGCCCTGGAGTT	825
QY	844	TTTCACTGTGT	GGCTTAACTATAG	AGGATAGGATACG	GAAGAGTGTGGTTCA	GAGCCT 903
Dp	826	TTTCACTGTGT	GGCTTAACTATAG	AGGATAGGATACG	GAAGAGTGTGGTTCA	GAGCCT 885
QY	904	GGGCTGGCTTT	CCCAACCACCGAG	CCCGAGAACCA	CGTACATGAT 945	
Dp	886	GGGCTGGCTTT	CCCAACCACCGAG	CCCGAGAACCA	CGTACATGAT 927	

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RESULT 4
US-10-101-510-447
; Sequence 447, Application US/10101510
; Publication No. US20030148295A1
; GENERAL INFORMATION:
; APPLICANT: WANG, JACKSON
; APPLICANT: WANG, YIXIN
; TITLE OF INVENTION: EXPRESSION PROFILES AND METHODS OF USE
; FILE REFERENCE: 15117.0012
; CURRENT APPLICATION NUMBER: US/10/101.510
; CURRENT FILING DATE: 2002-03-20
; PRIOR APPLICATION NUMBER: 60/276,947
; PRIOR FILING DATE: 2001-03-20
; NUMBER OF SEQ ID NOS: 805
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 447
; LENGTH: 3382
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-101-510-447

```

[illegible]

QY	12	CCCCCCTGACGCGGAGCGCCCTGAGCCCTCGAGCCCGACATCGCGGGGGCTAAACGCGCAG	180
Db	332	GCTCCCTCGCGGTGg-----GCCCCCAAGCAAGCATCAGAGTGGCAGCAGTGCATC	385
QY	181	CCGGGCACTGAGCCTTGGCAGTAGAGCCTCGACCATGAGAGGTGGCACTATCGCGGGGC	240
Db	386	GCCGGTCAGTGGCCCTCGCAGGTGAGCATCACTATGAAGGCGTCCATGTGTGTGTGGC	445
QY	241	TCCTCATTCGCCCCCTCTGGTCTCTCCGCTGTCTACTGTTTTATAGCAATGGGAGC	300
Db	446	TCCTCTGTGTGAAGCAGTGGGTCTGTCAAGTCTACTGTCTTCCACGCA-----	498
QY	301	TTGAGGCCCGCGGCGCAGTGGTCCGTACTGTGTGGGCTGTGACTCCACAGACGGGCCCTG	360
Db	499	--GACACACAGAGAAGCCTATGAGGTCAAGTGGGGGGCCACACAGTACAGTCTTACTTC	556
QY	361	GACGGCGCGCACCCGCGCAGTGGCCGCACATGTGTGCGCGGCAACTACAGCCAAAGTG	420
Db	557	GAGGAGCCCAAGGTGCACACCCCTGAAAGAAATCCCCACCCCACTCACTCTCCAGAG	616
QY	421	GAGCTGGAGCGCGACCTGGCCCTGTGGGCTGTGGCCCTCACCCGCGACGCTGGCCCGCC	480
Db	617	GGCTCCAGGCGCAGATTGACATCTCTCAACTACAGCAGACCCATCACTTCTCCGCTAC	676
QY	481	GTCGTGCTGTCTGTCCCTGCGCCCGCGACTCACACCGTCTGTGCACGGCAACCGCTGTGCG	540
Db	677	ATCCGGCCCATGTGTCTCTCCCTGGAGCGCAAGCGCTCTTCCCAAGCGGCTTCACTGGACT	736
QY	541	GCCACCGGCTGGGGAGACGTCACAGAGGCAATCTTGTGCTCTCCCTGGGTGTACAG	600
Db	737	GTCATCTGGCTGGGGTCAATGTGGCCCCCTCAGTAGGCTCTGTAGCGCCAAACCACTGGAG	796
QY	601	GAAGTGAAGCTAAGAGCTGTGGCGAGGAGGCAACCTGTCAATGTCTTCAAGCAGACCGAGT	660
Db	797	CAATTCAGAGTGGCTCTGTATCATGTCGTGAACGTGTAACTGTCCCTGTACACATGAGCGCC	856
QY	661	CCCTTCAACTCACTCTCCAGATATTGACAGGGAATGCTGTGTGTGCTTACCAAGAGGC	720
Db	857	AAGCTGAGGAGCGGCACTTGTTCAGAGAGAACTAGTGTGTGTGCTTATGTGAAGGGG	916
QY	721	CGCAGGAGCACTGTCCCAAGGTGACTCTGTGGGGGGCCCTGTGTGTAGAGGAAGGCGCCG	780
Db	917	GGCAAGGACCCGTGCCAGGTGATCTGTGGGGGCCCACTTCTGTGCCCTGTGGAGAGTCTC	976
QY	781	TGCTTCAGGCAAGAAATCATCAGCTTTGGGTTTGTGGCTGTGGAAGAAACCGGCTGTGA	840
Db	977	TGTGTACTGAAGGCAATTGTGAGCTGTGGGAGAAATCCTGTGTGGGGCCGCGACAGGCTGTGT	1036
QY	841	GTTTTCATCTGTGTGCTTACCTTATGAGGCAATGAAATCGGAGACAGTGTATGTGTTCAAG	900
Db	1037	GTTGTACTCTGTGGCCTCAGCTATGTCTCTCTGTGATCCAAAGCAAGGTGACAGAACTCCAG	1096
QY	901	CTGTGGGCTGTGCTTTGCCACGCCAG	924
Db	1097	CTGTGTGTGTGCCCAAAACCCAG	1120

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RESULT 5
US-10-176-847-85
; Sequence 85, Application US/10176847
; Publication No. US2003006836A1
; GENERAL INFORMATION:
; APPLICANT: Velby, Pelter Ole
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
; TITLE OF INVENTION: AND OVARIAN CANCER
; FILE REFERENCE: MRI-039
; CURRENT APPLICATION NUMBER: US/10/176,847
; CURRENT FILING DATE: 2002-06-21
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 85

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LENGTH: 1733  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-176-847-85

Query Match 20.9%; Score 230.8; DB 15; Length 1733;  
Best Local Similarity 54.9%; Pred. No. 1.7e-52;  
Matches 507; Conservative 0; Mismatches 402; Indels 15; Gaps 2;

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OY 1 GGGCCCTTGTCTGGGCGCATGGCCGAGAGGGGGCTCGGGGCGCTGGGCGACTGGGGCT 60
DB 81 GGGCCCTTGTCTGGGCGCATGGCCGAGAGGGGGCTCGGGGCGCTGGGCGACTGGGGCT 140
OY 61 GTGGCAATTTGACTCACTACTCACTTTCAGGGTGTGGCCGTCCGAGCCCGCTAGAGGC 120
DB 141 GTGGCAATTTGACTCACTACTCACTTTCAGGGTGTGGCCGTCCGAGCCCGCTAGAGGC 200
OY 121 CCCCCGTAAGTGGGGCGCCGTGAGCCCTCGGCGCATCGTGGGGGCTCAAGCGCGAG 180
DB 201 GCTCCCTGGGGGTGTG-----GCCCCGAGCAGCATCAGAGGTGGCAGAGTGCAGTTC 254
OY 181 CCGGGCAACTGGGCGTGGCAGATGAGCGTGCACATGAGAGGTGGCAGATCTGGGGGGC 240
DB 255 GCGGTCAGTGGCGCTGGAGAGTACATCACTATGAGAGGTGCATGTGTGTGTGGC 314
OY 241 TCCCTCATGCCCCCTCTGGGTCTCTCCGCTGCTCACTGTTCATGACGAATGGAGCG 300
DB 315 TCTCTCGTGTGAGCAGAGTGGGTGCTGTCACTGTCTCACTGCTTCCAGAGGA----- 367
OY 301 TTGAGACCCCGCGCGAGTGTGCTGCTGAGCGCTGCTCCAGAGAGGGGCGCTG 360
DB 368 --GCAACCAAGAGAGCTATGAGGTCAAGCTGGGGGCGCCACAGCTGAGTCTTACTCC 425
OY 361 GACGCGCGCGCACCCCGCGCAGTGGCGCGCATCGTGTGGCGCGCACTAGAGCCAAATG 420
DB 426 GAGGAGCGCAAGTGAAGACCTGAAGACATATCCCGACCCAGCTACCTCCAGAG 485
OY 421 GAGCTGGGCGCGCACTGGCCCTGTGCGCGCTGCGCTGCGCGCGCGCGCGCGCGCC 480
DB 486 GAGCTCCAGGGGAGCATGTGCACTCTTCACTCAGCAGAACCATATCACTTCCCGCTAC 545
OY 481 GTGTGGCTGTGTGCTGCGCGCGCGCTCAACCGCTTGTGTGACAGGCACGGCTGTGG 540
DB 546 ATCGGGCCCATCTGTCTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 605
OY 541 GCGACCGGCTGGGAGAGCTGCGAGGAGAGATCCTGTGCGCTTCCCGTGGGTGTAG 600
DB 606 GTCACTGGCTGGGAGTCAATGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCT 665
OY 601 GAAGTGAAGCTAAGGCTGCTGGCGAGGCGCACTGTCAATGTCTTACAGCCAGCCGCT 660
DB 666 CAACCTGAGGTGCGCTGTATGAGTGTGAGAGGTAACTGCTGTACAAATGAGCGC 725
OY 661 CCGTTCAACTCACTTCAAGATATTGCCAGGAGATGTGTGTGTGTGTGTGTGTGTGT 720
DB 726 AAGCTTGAAGCGCGCACTTGTTCAGAGAGACATGATGTGTGTGTGTGTGTGTGTGT 785
OY 721 CGCAGGAGCACCTGCGAGGAGTACTGTGGGGGGCGCGTGTGTGTGTGTGTGTGTGTGT 780
DB 786 GCGAAGAGCGGCTGCGAGGAGTACTGTGGGGGGCGCGTGTGTGTGTGTGTGTGTGTGT 845
OY 781 TGGTTCCAGGAGAGATCAACAGCTTTGGGTTTGGCTGTGAGCGAGAAACCGCCCTGGA 840
DB 846 TGGTACTGAGCGGGCATTTGTGAGCTGGGAGATGTGTGTGGGGCGCGCAAGGCTGTGT 905
OY 841 GTTTTCACTGCTGTGGGCTACTATGAGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGT 900
DB 906 GTTGAACACTTGTGGCTTCAAGCTATGTCTGTGATCAAGCAAGGTGACAGAACTTCCAG 965
OY 901 CCGGGGCTGCGCTTTCACACCGAG 924
DB 966 CCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 989

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RESULT 6  
US-10-311-591A-5  
Sequence 5, Application US/10311591A  
Publication No. US20040141962A1  
GENERAL INFORMATION:  
APPLICANT: XIAO, Yonghong  
TITLE OF INVENTION: Regulation of Human Prostatin-like  
FILE OF INVENTION: Serine Protease  
FILE REFERENCE: 004974.00929  
CURRENT APPLICATION NUMBER: US/10/311,591A  
CURRENT FILING DATE: 2003-03-24  
PRIOR FILING DATE: 2000-06-23  
PRIOR APPLICATION NUMBER: US 60/277,612  
PRIOR FILING DATE: 2001-03-22  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 5  
LENGTH: 944  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-311-591A-5

Query Match 20.5%; Score 226.4; DB 17; Length 944;  
Best Local Similarity 57.7%; Pred. No. 2.5e-51;  
Matches 448; Conservative 0; Mismatches 316; Indels 12; Gaps 2;

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OY 124 CCGTATGCGGGGCGCCCTGAGCCCTCGGCGCGCATCGTGGGGGCTCAAGCGCGAGCG 183
DB 43 CTGGCTGTGGGCGAGCCCGCGATGTCAGTGAATGTTGGAGGCGGAGATGGCGGAGAC 102
OY 184 GGCACCTGGGCTTGGCAAGTGAAGCTGACACCATGAGAGGTGGCCATCTGGGGGGCTCC 243
DB 103 GGAAGAGTGGCGGTGGGCGAGCGACATCCAGATGTGGGCGACAGTGTGGGGGGTGTG 162
OY 244 CTGATGCGCCCTCTCTGTGGTCTCTCTCGCTGTCTACTGTTCATGACGAATGGAGCTTG 303
DB 163 CTGATGCGCCCGCGAGTGGGTGTGACAGCGCGCGCATGTCTTCCAGAGGA-----CG 213
OY 304 GAGCCCGGCGGAGTGTGCTGTGCTGTGGGCGGTGACCTCCAGAGAGGGGCGCCGTGAG 363
DB 214 GCACTGCGAGCTGAGTACCGGTGCGCTGTGGGGGCGGTGCGCTGTGGGCTTCAACTGTGCC 273
OY 364 GCGCGGCGCACCCCGCGAGTGGCGCGCATCTGTGTGCGCGCGCAACTACAGCAAGTGGAG 423
DB 274 CGCAGGCTGTGGGTGCGCGGTGCGAGAGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 333
OY 424 CTGGGCGCGGACTGGGCGCTGTGGCGCTGTGAGCTTCAACCGCAGCTGTGGGCGCGCTG 483
DB 334 GCGCGCGGCGGACTGGGCGCTGTGAGCTGTGAGTGTGCGCGCGGTGAGCGCTGTGCTG 393
OY 484 TGGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 543
DB 394 CAACCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 453
OY 544 ACCGCTGTGGGAGAGTGTCAAGAGGAGAGTCTGTGCTTCTCCCTGTGGGTGTACAGAGA 603
DB 454 ACCGCTGTGGGAGAGTGTCTCGCGCAGAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGT 513
OY 604 GTGAGACTAAGGCTGTGGGCGAGGCGCACTGTGTCAATGTCTTACAGCGACCGGCTGCC 663
DB 514 GTAAGGGTGTGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 573
OY 664 TTCAACCTCACTTCCAGATAT---TGCAGAGGATGTGTGTGTGTGTGTGTGTGTGTGTGT 720
DB 574 GTGCCCGAGGCTGAGCGATTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 633
OY 721 CGCAGGAGCACCTGCGAGGAGTGACTGTGGGGGGCGCGTGTGTGTGTGTGTGTGTGTGTGT 780
DB 634 CACAAGAGCGGCTGCGAGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 693
OY 781 TGGTTCCAGGAGAGATCAACAGCTTTGGGTTTGGCTGTGTGTGTGTGTGTGTGTGTGTGT 840

```

Db 694 TGGGCTCTGAGCGCTGGTGAAGCTGGGGCAAGGTTTGCCCTGCCCCAACCGTCAAGG 753  
 841 GTTTTCACTGCTGTGGCTACCTATGAGGAGATGATACGGGAGCAGTGATGGGTT 896  
 Db 754 GTCTACACCAAGTGTGGCCACATATAGCCCTTGATTCAGGCTCGTGCTAAATTAAC 809

```

RESULT 7
US-10-451-168-46
: Sequence 46, Application US/10451166
: Publication No. US20040091969A1
: GENERAL INFORMATION:
: APPLICANT: SMITHKLINE BEECHAM CORPORATION
: APPLICANT: SMITHKLINE BEECHAM P.L.C.
: APPLICANT: GLAXO GROUP LIMITED
: TITLE OF INVENTION: NOVEL COMPOUNDS
: FILE REFERENCE: GPE50039
: CURRENT APPLICATION NUMBER: US/10/451,168
: CURRENT FILING DATE: 2003-11-12
: PRIOR APPLICATION NUMBER: PCT/US01/49232
: PRIOR FILING DATE: 2000-12-17
: PRIOR APPLICATION NUMBER: 60/256,710
: PRIOR FILING DATE: 2000-12-19
: PRIOR APPLICATION NUMBER: 60/257,048
: PRIOR FILING DATE: 2000-12-20
: PRIOR APPLICATION NUMBER: 60/260,482
: PRIOR FILING DATE: 2001-01-09
: PRIOR APPLICATION NUMBER: 60/264,922
: PRIOR FILING DATE: 2001-01-30
: PRIOR APPLICATION NUMBER: 60/266,797
: PRIOR FILING DATE: 2001-02-06
: PRIOR APPLICATION NUMBER: 60/276,988
: PRIOR FILING DATE: 2001-03-19
: PRIOR APPLICATION NUMBER: 60/281,535
: PRIOR FILING DATE: 2001-04-04
: PRIOR APPLICATION NUMBER: 60/289,622
: PRIOR FILING DATE: 2002-06-28
: NUMBER OF SEQ ID NOS: 110
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 46
: LENGTH: 843
: TYPE: DNA
: ORGANISM: Homo sapiens
US-10-451-168-46

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Query Match	20.5%;	Score 225.6;	DB 17;	Length 843;
Best Local Similarity	58.0%;	Pred. No. 4.1e-51;		
Matches 443;	Conservative	0;	Mismatches 309;	Indels 12;
				Gaps 2;

Qy	129	CTGCGGGCGCCCTTGAGCCCTCGAGCCCGCATCTGTGGGGGGGTCTCAAAACGCGACGCCGGCAC	188
Db	81	CTTCGGGGCAGCCCCCGCATGTCCAGTCGGATCTTGTGGGGGGCGGGATGCGCCGGACCGAGAGA	140
Qy	189	CTGAGCCTTGGAAGTAGCGCTGCACCATGATGAAGTGGCCACACTGCGGGGGCTCCCTCAT	248
Db	141	GTGAGCCGTGGCAGGCGAGCATCCAGCATCTGTGGGSCACACCTGTGCGGGGGGTGTCTCAT	200
Qy	249	CGCCCCCTCTGTGGCTCTCTCCGCTGCTCACTGTTTCACTGACGAATGGAGCGTTTGAACC	308
Db	201	CGCCCCCAGTGGGTCTGACAGCGGGCGGACGTCTCCCGACGA-----GGGACCT	251
Qy	309	CGCGGCCGAGTGGTGGTACTGCTGTGGCGGTGACCTCCAGACGAGGCCCTGTGACGCGCG	368
Db	252	GCCAGCTGAGTACCGCGGTGCGCTGTGGGGGGCGCTGCGTCTGAGGCTTCACCTTGCCCCGCAC	311
Qy	369	GCACACCCCGCAGTGGGCCGCCCATGTGTGTGCGGCCCACTACACGCCAAGTGGAGCTGGG	428
Db	312	GCTCTGTGTGCGCCCGTGCACGAGGTCTGTGCCCCCGACTCACTCCGAGAGACGGGGCCG	371
Qy	429	CGCGGACCTGGCGCTGTGGGCGCTGGGCTCAACCGCCACGCTGGGGCCCGCGCTGTGGCC	488
Db	372	CGGCGACCTGGGACCTGTGCACTGTGTGTGCGCCGGGTGCCCTTGAGAGCGTGTGCGTCAACC	431

QY	489	1GTCTGCTGCCCCCGGCGCTTACACCGCTTCTGTGACAGGCAACGCGTGTGTGGCCACCGG	548
Db	432	CGTCTGCTGCCCCGTCGCCCCGGCGCCCGCCCGCCGCGACACATGCGGGTACCGG	491
QY	549	CTGGGGAGACGTCACGAGAGCAGATCTCTGCGCTCTCCCTGGGTCTACAGAAATGGA	608
Db	432	CTGGGGCAGCTTCCGCGCCAGAGGTGCTCCCTCCAGAGTGGCAGCCGCTACAGAGTAAG	551
QY	609	GTAAAGCTGCTGGGCGAGGCCACCTGTCAATGTCTTACACGCCAGCCCGGTCCCTTCAA	668
Db	552	GGTGCCTGCTGAGACTGCGCAGCTGCGAGGCTCTACACAGTGGCGCGGACGTGCC	611
QY	669	CTTCACTCTCCAGATAT---TGGCAGAGATGCTGTGTGTGTGCTTACCCAGAGGCCGCGAG	725
Db	612	CCAGGCTAGCCCATTTGTGTCTCTCGAGGTCTGTGTGTCGGGTATCCCCCAGAGGCACAA	671
QY	726	GGAACACTGCCAGGGTGACTCTGGGGGGGCCCTGTGCTGTGAGAGAGCGGCGCTGATT	785
Db	672	GGAACCTCTGCGAGGGTGAATTCTGGGGGACCTCTGACCTGTCCGTCACTCTGGAGACTGGGT	731
QY	786	CCAGGCGAGGAATCACCAAGCTTTGGGTTTGGCTGTGAGCGAAGAAACGCGCCCTGGAGTTT	845
Db	732	CTGTGGGCGCTGAGGCTGGGGGCAAGGATTGTGCTCGCCCAACCTGTCAGAGGCTCTA	791
QY	846	CATCTGCTGTGGCTACTATAGAGGATGATATACGGAGCAGGTGGA	889
Db	792	CACCAGTGTGGCACATATAGCCCTCGAATTCAGGCTCTCCGTCGA	835

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1      RESULT 8
2      US-10-451-168-47
3      ; Sequence 47, Application US/10451168
4      ; Publication No. US20040091969A1
5      ;
6      ; GENERAL INFORMATION:
7      ; APPLICANT: SMITHKLINE BEECHAM CORPORATION
8      ; APPLICANT: SMITHKLINE BEECHAM P.1.C.
9      ; APPLICANT: GLAXO GROUP LIMITED
10     ; TITLE OF INVENTION: NOVEL COMPOUNDS
11     ; FILE REFERENCE: GPE0039
12     ;
13     ; CURRENT APPLICATION NUMBER: US/10/451,168
14     ; CURRENT FILING DATE: 2003-11-12
15     ; PRIOR APPLICATION NUMBER: PCT/US01/49232
16     ; PRIOR FILING DATE: 2000-12-17
17     ; PRIOR APPLICATION NUMBER: 60/256,710
18     ; PRIOR FILING DATE: 2000-12-19
19     ; PRIOR APPLICATION NUMBER: 60/257,048
20     ; PRIOR FILING DATE: 2000-12-20
21     ; PRIOR APPLICATION NUMBER: 60/260,492
22     ; PRIOR FILING DATE: 2001-01-09
23     ; PRIOR APPLICATION NUMBER: 60/264,922
24     ; PRIOR FILING DATE: 2001-01-30
25     ; PRIOR APPLICATION NUMBER: 60/266,797
26     ; PRIOR FILING DATE: 2001-02-06
27     ; PRIOR APPLICATION NUMBER: 60/276,988
28     ; PRIOR FILING DATE: 2001-03-19
29     ; PRIOR APPLICATION NUMBER: 60/281,535
30     ; PRIOR FILING DATE: 2001-04-04
31     ; PRIOR APPLICATION NUMBER: 60/289,622
32     ; PRIOR FILING DATE: 2002-06-28
33     ; NUMBER OF SEQ ID NOS: 110
34     ; SOFTWARE: FastSeq for Windows Version 4.0
35     ; SEQ ID NO 47
36     ;
37     ; LENGTH: 849
38     ; TYPE: DNA
39     ; ORGANISM: Homo sapiens
40     ; US-10-451-168-47

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Query	129	CTGCGGAGCCCTTGAGCCCTGGCCCGCATGTGTGGGGGGCTTCMAACGGCGCAGCCGGGCAC	188
Query Match	20.5%	Score 225.6;	DB 17; Length 849;
Best Local Similarity	58.0%	Pred. No. 4,1e-51;	
Matches 443; Conservative	0;	Mismatches 309;	Indels 12; Gaps 2





```
APPLICANT: Qi, Jenson
; TITLE OF INVENTION: DNA Encoding the Human Serine
; FILE REFERENCE: ORT-1031
; CURRENT APPLICATION NUMBER: US/10/041,400A
; CURRENT FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US/09/387,375
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1613
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-041-400A-1
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Query Match 20.3%; Score 224; DB 14; Length 1613;
Best Local Similarity 57.9%; Pred. No. 1.2e-50;
Matches 442; Conservative 0; Mismatches 310; Indels 12; Gaps 2;
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```
QY 129 CTGGGGGCGCCCTGAGCCCTGGCCCGGATGTGGGGGGCTCAACCGCGACGGCGGAC 188
DB 149 CTGGGGGAGCCCGCATGTCAAGTGGATGTGGGGGGCGGGATGGCCGGAGAGAGA 208
QY 189 CTGGCTTTGGCAATGAGCTGCAACATGAGAGTGGCCACATCTGCGGGGCTCCCTCAT 248
DB 209 GTGGCCGTGGAGCGAGCATTCAGCATCTGGGGCAACGTGTGGGGGGTGGCTCAT 268
QY 249 CGCCCTCTCTGGTCTCTCCGCTGCTCACTGTTTATGACGAATGGAAAGTTTGAAGCC 308
DB 269 CGCCCCAGTGGGTGTGCTGACAGCGGCGCACTGCTTCCCAAGAA-----GGGCACT 319
QY 309 CGCGCGAGAGTGTGCTGATCTGTGGGGGTGACATCCCGAGAGAGCGGCGCCCTGAGAGCGGCG 368
DB 320 GCCAGCTAGTACCGCGTGGCGCTGGGGGGCGCTGGCTTGGAGCTTCACTTGGCCCGCAC 379
QY 369 GCAACACCGCGCAGAGTGGCGCCCATGTGTGTCGGCCGCAACTACAGCCAAAGTGAAGTGGG 428
DB 380 GCTCTGGTGGCCGATGCGACAGGGGTCTGTGCTGCCCCGGAATACCTCGAGAGAGGGGCCG 439
QY 429 CGCGGACCTGGCCCTGTGCGCTTGGCTTCAACCGCGCAGCCTTGGGCGCCCGCGTGTGGCC 488
DB 440 CGGGGACCTGGCACGTGCTGACAGTGTGCGCCGGTGGCCCTGAGCGCTTCCGTCACAAC 499
QY 489 TGTGTCGCTGCGCCCGCGCGCTGACACCGCTTGTGTGAGAGCGGACCGCTGTGGGGCCACCG 548
DB 500 GGTCTGCTGCGCCCGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 559
QY 549 CTGGGGAGACGTCCAGAGAGAGAGATCTCTGTGCTTCTCCCTGGGTGTACAGAAAGTGA 608
DB 560 CTGGGGGAGCCTCCGCGCCAGAGAGTGCCTCTCCAGAGTGGGAGCCGCTAACAGAGAGTAA 619
QY 609 GCTAAGGTGTGCTGGGCGAGGCACTGTGCATGTCTTACAGCCAGCCCGGTCTTCAA 668
DB 620 GGTGCGCGTGTGACCTGCGGCACTGCGGCACTGCTTACAGTGGGCGCGGAGTGC 679
QY 669 CCTCACTCTCCAGATAT---TGCCAGGAGATGTGTGTGTGTGTGTGTGTGTGTGTGTGT 725
DB 680 CAGGCTAGCGCATTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 739
QY 726 GGAACACTGCGAGGGTGAATCTTGGGGGGCGCCCTGTGTGTGTGTGTGTGTGTGTGTGT 785
DB 740 GGAAGCCTGCGAGGGTGAATTTCTGGGGGAGCTTGTGTGTGTGTGTGTGTGTGTGTGTGT 799
QY 786 CCAAGGAGAGATCAACAGCTTTGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 845
DB 800 CTTGTGTGGGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 859
QY 846 CACTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 889
DB 860 CACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 903
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RESULT 12
US-10-041-264A-1
; Sequence 1, Application US/10041264A
; Publication No. US20020142446A1
; GENERAL INFORMATION:
; APPLICANT: Darrow, Andrew
; APPLICANT: Andrade-Gordon, Patricia
; APPLICANT: Qi, Jenson
; TITLE OF INVENTION: DNA Encoding the Human Serine
; FILE REFERENCE: ORT-1031
; CURRENT APPLICATION NUMBER: US/10/041,264A
; CURRENT FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US/09/387,375
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1613
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-041-264A-1
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Query Match 20.3%; Score 224; DB 14; Length 1613;
Best Local Similarity 57.9%; Pred. No. 1.2e-50;
Matches 442; Conservative 0; Mismatches 310; Indels 12; Gaps 2;
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```
QY 129 CTGGGGGCGCCCTGAGCCCTGGCCCGGATGTGGGGGGCTCAACCGCGACGGCGGAC 188
DB 149 CTGGGGGAGCCCGCATGTCAAGTGGATGTGGGGGGCGGGATGGCCGGAGAGAGA 208
QY 189 CTGGCTTTGGCAATGAGCTGCAACATGAGAGTGGCCACATCTGCGGGGCTCCCTCAT 248
DB 209 GTGGCCGTGGAGCGAGCATTCAGCATCTGGGGCAACGTGTGGGGGGTGGCTCAT 268
QY 249 CGCCCTCTCTGGTCTCTCCGCTGCTCACTGTTTATGACGAATGGAAAGTTTGAAGCC 308
DB 269 CGCCCCAGTGGGTGTGCTGACAGCGGCGCACTGCTTCCCAAGAA-----GGGCACT 319
QY 309 CGCGCGAGAGTGTGCTGATCTGTGGGGGTGACATCCCGAGAGAGCGGCGCCCTGAGAGCGGCG 368
DB 320 GCCAGCTAGTACCGCGTGGCGCTGGGGGGCGCTGGCTTGGAGCTTCACTTGGCCCGCAC 379
QY 369 GCAACACCGCGCAGAGTGGCGCCCATGTGTGTCGGCCGCAACTACAGCCAAAGTGAAGTGGG 428
DB 380 GCTCTGGTGGCCGATGCGACAGGGGTCTGTGCTGCCCCGGAATACCTCGAGAGAGGGGCCG 439
QY 429 CGCGGACCTGGCCCTGTGCGCTTGGCTTCAACCGCGCAGCCTTGGGCGCCCGCGTGTGGCC 488
DB 440 CGGGGACCTGGCACGTGCTGACAGTGTGCGCCGGTGGCCCTGAGCGCTTCCGTCACAAC 499
QY 489 TGTGTCGCTGCGCCCGCGCGCTGACACCGCTTGTGTGAGAGCGGACCGCTGTGGGGCCACCG 548
DB 500 GGTCTGCTGCGCCCGTGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 559
QY 549 CTGGGGAGACGTCCAGAGAGAGAGATCTCTGTGCTTCTCCCTGGGTGTACAGAAAGTGA 608
DB 560 CTGGGGGAGCCTCCGCGCCAGAGAGTGCCTCTCCAGAGTGGGAGCCGCTAACAGAGAGTAA 619
QY 609 GCTAAGGTGTGCTGGGCGAGGCACTGTGCATGTCTTACAGCCAGCCCGGTCTTCAA 668
DB 620 GGTGCGCGTGTGACCTGCGGCACTGCGGCACTGCTTACAGTGGGCGCGGAGTGC 679
QY 669 CCTCACTCTCCAGATAT---TGCCAGGAGATGTGTGTGTGTGTGTGTGTGTGTGTGTGT 725
DB 680 CAGGCTAGCGCATTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 739
QY 726 GGAACACTGCGAGGGTGAATCTTGGGGGGCGCCCTGTGTGTGTGTGTGTGTGTGTGTGT 785
DB 740 GGAAGCCTGCGAGGGTGAATTTCTGGGGGAGCTTGTGTGTGTGTGTGTGTGTGTGTGTGT 799
QY 786 CCAAGGAGAGATCAACAGCTTTGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 845
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Db 800 CCGTGGGGGGTGTGAGCTGGGGCAAGGGTTGTGCCCTGCCCAACGCTCCAGGGGTCTA 859  
QY 846 CACTGCTGTGGCTACTATGAGGATGATACGGAGCAGGTGA 889  
Db 860 CACGAGTGTGGCCACATATAGCCCTTGAGTTACGAGCTCGGTCA 903

RESULT 13  
US-10-042-091A-1

/ Sequence 1, Application US/10042091A  
/ Publication No. US20020142447A1  
/ GENERAL INFORMATION:  
/ APPLICANT: Darrow, Andrew  
/ APPLICANT: Andrade-Gordon, Patricia  
/ APPLICANT: Qi, Jensen  
/ TITLE OF INVENTION: DNA Encoding the Human Serine  
/ TITLE OF INVENTION: Protease E0S  
/ FILE REFERENCE: ORT-1031  
/ CURRENT APPLICATION NUMBER: US/10/042,091A  
/ CURRENT FILING DATE: 2002-01-08  
/ PRIOR FILING DATE: 1999-08-31  
/ NUMBER OF SEQ ID NOS: 9  
/ SOFTWARE: PatentIn Ver. 2.0  
/ SEQ ID NO 1  
/ LENGTH: 1613  
/ TYPE: DNA  
/ ORGANISM: Homo sapiens  
US-10-042-091A-1

Query Match 20.3%; Score 224; DB 14; Length 1613;  
Best Local Similarity 57.9%; Pred. No. 1,2e-50;  
Matches 442; Conservative 0; Mismatches 310; Indels 12; Gaps 2;

QY 129 CTGGCGGGCGCCCTGAGCCCTCGGCCCGCATCTGTGGGGGGCTCAAGCCGCGAGCCGGGAC 188  
Db 149 CTGGCGGGCGAGCCCGCATGTCAGTGGATCTGTGGGGGGCGGGAGTGGCCGAGCCGAGA 208  
QY 189 CTGGCGCTTGGCAAGTAGCGCTGACATGAGAGGTGGCCCATCTGTGGGGGGCTCCCTCAT 248  
Db 209 GTGGCGGTGGCAAGCCAGATCCAGATCTGTGGGGGACACGTGTGGGGGGGTGGCTCAT 268  
QY 249 CGCCCCCTCTGTGGTCTCTCCGCTGCTCACTGTTTCATGACGATGGAGCGTTGAGGCC 308  
Db 269 CGCCCCCGAGTGGGTCTGACAGCGCGGACGCTCTCCCAAGA-----GGCAGCT 319  
QY 309 CGGGCGGAGTGTGGTACTGTGGGCGTGCATCCAGAGAGGGCCCTGAGCGGCGC 368  
Db 320 GCGAGCTGAGTACCGGTGTGGGCGGCGTGGGCTGTGGGCTCCACCTCGCCCGCAC 379  
QY 369 GCACACCCCGGAGTAGGGCGGCATGTGTGGGCGGCGCACTACAGCCAGATGGAGCTGGG 428  
Db 380 GCTCTGGGTGGCGGTGCGAGGGTGTGCTGCCCCCGGACTACTCCAGAGAGCGGGCCCG 439  
QY 429 CGCGGACCTGTGGCTGTGCGCTGACCTCACCCCGCAGCTTGGAGCCCGCGTGGCC 488  
Db 440 CGGCGACTGTGCACTGTGAGCTGTGCGCGCGGTGGCCCTTGAAGGCTGCGTCCAAAC 499  
QY 489 TGTGTGCTGGCGCGCGGCTGACACCGGCTTGTGACACGCGACCGCTGTGGGCGACCG 548  
Db 500 CGTGTGCTGGCG 559  
QY 549 CTGGGAGAGAGTCCAGAGAGCAGATCTGTGCTCTCCCTGTGGGTCTTACAGAGATGGA 608  
Db 560 CTGGGAGAGAGTCTCGCCAGAGAGTGTCTCTCCAGAGTGGCGACCGCTTACAGAGATGA 619  
QY 609 GCTAAGGCTGTGGGAGAGCCACCTGTCAATGTCTTACAGCCAGCCCGGTCCCTTCA 668  
Db 620 GGTGGCGGCTGTGAGATCGCGACCTGCGACCGGCTTACAGCGTGGGCGGAGCGTGC 679  
QY 669 CTTCACTCTCCAGATAT---TGCAGAGGATGTGTGTGTGCTGTACCGAGAGGGCGGAG 725  
Db 680 CCAGGCTGAGCGCATTTGT 739

QY 726 GGAACACTCCAGAGGAGTCTTGGGGGGCCCTGTGTGTGTGTGTGTGTGTGTGTGTGT 785  
Db 740 GGAAGCTTCAGAGGAGT 799  
QY 786 CCAGGAGGATTCACAGCTTTTGGGTTTGGCTGTGTGTGTGTGTGTGTGTGTGTGTGT 845  
Db 800 CCGTGGGGCGGT 859  
QY 846 CACTGCTGTGGCTACTATGAGGATGATACGGAGCAGGTGA 889  
Db 860 CACGAGTGTGGCCACATATAGCCCTTGAGTTACGAGCTCGGTCA 903

## RESULT 14

US-09-948-094-1  
/ Sequence 1, Application US/09948094  
/ Patent No. US2002090625A1  
/ GENERAL INFORMATION:  
/ APPLICANT: The Brigham and Women's Hospital, Inc.  
/ APPLICANT: Mok, Samuel  
/ APPLICANT: Wong, Kwong-kwok  
/ TITLE OF INVENTION: Methods of Detecting Cancer Based on Prostatin  
/ FILE REFERENCE: 81994/282423  
/ CURRENT APPLICATION NUMBER: US/09/948,094  
/ CURRENT FILING DATE: 2001-09-07  
/ NUMBER OF SEQ ID NOS: 4  
/ SOFTWARE: PatentIn version 3.0  
/ SEQ ID NO 1  
/ LENGTH: 1834  
/ TYPE: DNA  
/ ORGANISM: Homo sapiens  
/ NAME/KEY: CDS  
/ LOCATION: (229)..(1260)  
US-09-948-094-1

Query Match 20.1%; Score 221.2; DB 9; Length 1834;  
Best Local Similarity 54.2%; Pred. No. 6.8e-50;  
Matches 501; Conservative 0; Mismatches 408; Indels 15; Gaps 2;

QY 1 GGGCCCTGTCTGTGGCGCATGGGCCCAAGAGGGGCTCTGGGGCTTGGGAGCTGGGGGCT 60  
Db 211 GGGGCCCTGTCTGTGGCGCATGGGCCCAAGAGGGGCTCTGGGGCTTGGGAGCTGGGGGCT 270  
QY 61 GTGGCGCAATTCGACTCACTCACTTACCGGTGTGTGTGTGTGTGTGTGTGTGTGTGT 120  
Db 271 GTGGCGCAATTCGACTCACTTACCTTACCTTACCTTACCTTACCTTACCTTACCTTAC 330  
QY 121 CCCCCGTACTGGGGGCGCCTGAGCCCTGCGCCGATGTGGGGGCTCAACGCGCAG 180  
Db 331 GCTCCCTGGGCTGTG-----GCCCCAGAGAGATACAGGTGGCGAGCTGTGAGTC 384  
QY 181 CGGGGCACTGGCCTTGTGAGAGTGTGAGCTGTGACATGTGAGGTGGCCATCTTGGGGGCG 240  
Db 385 GCGGCTCAGTGGCCCTTGGAGGTGAGCATCACTTGAAGGGGTGTGTGTGTGTGTGTGT 444  
QY 241 TCCCTCATGCGCCCTCCGAGGTCCCTCGGCTCCGCTGCTCACTGTTTCACTGAGATGAGAG 300  
Db 445 TCTCTGTGTGTGTGAGAGT 497  
QY 301 TTGAGCCCGCGCGAGT 360  
Db 498 --GACACCAAGAGAGCTATAGAGGTCAAGCTGTGGGGGCCCAAGAGTACCTTCACTCC 555  
QY 361 GACGGGCGGCAACCGCGGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 420  
Db 556 GAGGAGCGGCAAGGTGAGCACTTGAAGGACATATCCCAACCCGCTACCTTCCGAGAG 615  
QY 421 GAGCTGGGGCGGACCTGTGGCCCTGCTGGGCTGTGAGCTTCAACCGCGAGCGCTTGGG 480  
Db 616 GGTCTCCAGGGGAGATGTGACTCTTCACTTCACTGAGAGACCATTAACCTTCTCCGCTAC 675







GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: July 30, 2004, 08:42:57 ; Search time 19 Seconds  
(without alignments)  
970.025 Million cell updates/sec

Title: US-10-037-417-46  
Perfect score: 1953  
Sequence: 1 MAQKVLGPQLGAVANSDS.....TKSLVLPWLSHLLGLMGF 357

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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2: /cgn2\_6/ptodata/2/1aa/5B.COMB.pep:\*  
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4: /cgn2\_6/ptodata/2/1aa/6B.COMB.pep:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	602	30.8	299	3	US-08-944-483-66
2	590	30.2	284	4	US-09-387-375-7
3	563	28.8	290	4	US-09-386-653A-7
4	557	28.5	316	4	US-09-387-375-9
5	550.5	28.2	319	4	US-09-386-642-12
6	550	28.2	328	4	US-09-386-642-11
7	544	27.9	317	4	US-09-386-629-7
8	544	27.9	317	4	US-09-907-794A-263
9	544	27.9	317	4	US-09-905-125A-263
10	540	27.9	317	4	US-09-902-775A-263
11	540	27.6	855	2	US-09-027-337-2
12	540	27.6	855	2	US-09-644-600-2
13	540	27.6	855	4	US-09-654-600A-2
14	534.5	27.4	314	3	US-09-008-271A-3
15	534.5	27.4	314	4	US-09-907-794A-257
16	534.5	27.4	314	4	US-09-905-125A-257
17	534.5	27.4	314	4	US-09-902-775A-257
18	533.5	27.3	314	4	US-09-023-942A-6
19	531	27.2	315	4	US-09-386-653A-9
20	529	27.1	285	4	US-09-023-942A-26
21	526.5	27.0	312	4	US-09-023-942A-4
22	506.5	25.9	902	4	US-09-644-600-10
23	506.5	25.9	902	4	US-09-654-600A-10
24	502	25.7	327	4	US-09-386-629-8
25	499	25.6	276	2	US-09-016-366A-15
26	499	25.6	276	2	US-08-978-404B-21
27	495	25.3	454	3	US-09-518-046-2

28	491.5	25.2	274	2	US-08-978-404B-5	Sequence 5, Appl
29	491	25.1	235	3	US-08-944-483-65	Sequence 65, Appl
30	490.5	25.1	376	4	US-09-820-002-2	Sequence 2, Appl
31	490.5	25.1	416	2	US-09-000-846-2	Sequence 2, Appl
32	490.5	25.1	417	4	US-09-820-002-4	Sequence 4, Appl
33	487.5	25.0	249	3	US-09-079-970A-5	Sequence 4, Appl
34	487	24.9	306	4	US-09-386-642-53	Sequence 53, Appl
35	485.5	24.9	273	2	US-09-016-366A-19	Sequence 19, Appl
36	485.5	24.9	273	2	US-08-978-404B-14	Sequence 14, Appl
37	484.5	24.8	274	2	US-09-016-366A-21	Sequence 21, Appl
38	484.5	24.8	274	2	US-08-978-404B-16	Sequence 16, Appl
39	482.5	24.7	244	4	US-09-601-318-4	Sequence 4, Appl
40	482.5	24.7	244	4	US-09-601-318-5	Sequence 5, Appl
41	482.5	24.7	244	4	US-09-601-318-6	Sequence 6, Appl
42	482.5	24.7	244	4	US-09-601-318-7	Sequence 7, Appl
43	482.5	24.7	245	3	US-09-079-970A-6	Sequence 6, Appl
44	482.5	24.7	245	3	US-09-601-318-1	Sequence 1, Appl
45	479	24.5	256	2	US-09-027-337-3	Sequence 3, Appl

## ALIGNMENTS

RESULT 1  
US-08-944-483-66  
Sequence 66, Application US/08944483  
Patent No. 6232456  
GENERAL INFORMATION:  
APPLICANT: COHEN, MAURICE  
APPLICANT: COLPITTS, TRACEY L.  
APPLICANT: FRIEDMAN, PAULA N.  
APPLICANT: GRANADOS, EDWARD N.  
APPLICANT: KLAS, MICHAEL R.  
APPLICANT: RUSSELL, JOHN C.  
APPLICANT: STEWART, KENT D.  
APPLICANT: STROUD, STEVEN D.  
TITLE OF INVENTION: NOVEL SERINE PROTEASE REAGENTS  
TITLE OF INVENTION: AND METHODS USEFUL FOR DETECTING AND TREATING DISEASES  
NUMBER OF INVENTION: OF THE PROSTATE  
NUMBER OF SEQUENCES: 76  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Abbott Laboratories  
STREET: 100 Abbott Park Road  
CITY: Abbott Park  
STATE: IL  
COUNTRY: USA  
ZIP: 60064-3500  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/944,483  
FILING DATE:  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Becker, Cheryl L.  
REGISTRATION NUMBER: 35,441  
REFERENCE/DOCKET NUMBER: 6183, US, 01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 847/935-1729  
TELEFAX: 847/938-2623  
TELEX:  
INFORMATION FOR SEQ ID NO: 66:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 299 amino acids  
TYPE: amino acid  
STRANDNESS: single  
TOPOLOGY: linear

MOLECULE TYPE: No. 6232456e  
US-08-944-483-66

Query Match	30.8%;	Score 602;	DB 3;	Length 299;
Best Local Similarity	41.4%;	Pred. No. 2.4e-47;		
Matches 127; Conservative	48;	Mismatches 120;	Indels 12;	Gaps 5;

```

QY      47  IVGSSNAOGCTMPWQVSLHHGGSHCGGSLAPSVLWLSAACPMTNGLEAPAMWSYLIG
      1  IIGGSSAAVAGQMPWQVSLIYEBGVVCGGSIVSEGVVLSAACHFSEHNKE---AYEVKLG 57
Db
QY      107 VHSQDGPDLGATHRAVALVATVPANTSQVELGADLALILFASPSALGPRAWVCLIPRASHR 166
      58 AHQDLSYSDADAKVSTKTDIIIPHSYLOGSOODIALIOLSPRIFFSYIRICLIPANAS 117
Db
QY      167 FVGTACMAATGWDGVQEAADPLPLPWVLOEVLRLTGATCCCLTSQEPFVLTLQIPGM 226
      118 FPGHGHCTYLTGWHVAPSVLLTPKPLQQLVPLISRETGCCLYNIDAKBEPHFVEDM 177
Db
QY      227 LCGYFBERRDITCGDSGGPLVCEGEGMFPQAGITSFPGGGRNNRGVFTAAVTEAWI 286
      178 VCGGYVEGKMDACQGGSGGPLSCVPEGIMYLTGLVSWEDACGAANRRGVVTLASVSASWT 237
Db
QY      287 REQWSESEGPAPFTQPKTQSD---CLHQTAFLDS-ARILRLPSHSISGVSTGTSTV 342
      238 QSKV---TELQPRVYPTQGESQPSDNLGCSHLAFSSAPAGQLRLRIILFLPGLALG---TL 292
Db
QY      343 LPWLSPH 349
      293 SPWLSEH 299

```

## RESULT 2

```

US-09-387-375-7
Sequence 7, Application US/09387375
Patent No. 6485957
GENERAL INFORMATION:
APPLICANT: Darrow, Andrew
APPLICANT: Andrade-Gordon, Patricia
APPLICANT: Qi, Jenson
TITLE OF INVENTION: DNA Encoding the Humana
TITLE OF INVENTION: Protease EOS
FILE REFERENCE: OPT-1031
CURRENT APPLICATION NUMBER: US/09/387,375
CURRENT FILING DATE: 1999-08-31
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 7
LENGTH: 284
TYPE: PRT
ORGANISM: Homo sapiens
US-09-387-375-7

```

Query Match	30.2%;	Score 590;	DB 4;	Length 284;
Best Local Similarity	46.3%;	Pred. No. 2.8e-46;		
Matches 119;	Conservative 29;	Mismatches 99;	Indels 10;	Gaps 3;

QY CGGPEPSAATVGGSSNAGPCTWPMOVSIIHGGGSHCGGSLIAPSWVLISAACHEMTNGLLEP 97  
30 CGGPEPSAATVGGSSNAGPCTWPMOVSIIHGGGSHCGGSLIAPSWVLISAACHEMTNGLLEP 97  
Db CGGPRMSSRTVGGGRDERIDGEMPMOASIQHPAHVGGGSLIAPQVLTAAHCFRRAL--- 84  
28 CGGPRMSSRTVGGGRDERIDGEMPMOASIQHPAHVGGGSLIAPQVLTAAHCFRRAL--- 84  
QY AAEWSVLLGVHSODGDLGDAHTRAAVALVPANVSQVYLGAIDLALILASPAISLGPVWP 157  
98 AAEWSVLLGVHSODGDLGDAHTRAAVALVPANVSQVYLGAIDLALILASPAISLGPVWP 157  
Db PAEYRVRIGALRGISPTLSVPRVRYLLPDDYSEGDARDLALDLRRVPLSAVQP 144  
85 PAEYRVRIGALRGISPTLSVPRVRYLLPDDYSEGDARDLALDLRRVPLSAVQP 144  
QY VCIIPRASHEFVHGTCATMGEDVQADRLIPWVLQVEYLRLIGEATCCCLY---SQP 213  
158 VCIIPRASHEFVHGTCATMGEDVQADRLIPWVLQVEYLRLIGEATCCCLY---SQP 213  
Db VCIIPVGAARPPDGTPTCRVLTGWSLSPGVPLEPMRPLQSVRPDLISRTCCGLYHVGADVP 204  
145 VCIIPVGAARPPDGTPTCRVLTGWSLSPGVPLEPMRPLQSVRPDLISRTCCGLYHVGADVP 204  
QY GPPNLVLDTLLPGLCAGVDEGARBDTCQDSDGGPLTCEEGCGRWQAQITSPFGGGRNRP 273  
214 GPPNLVLDTLLPGLCAGVDEGARBDTCQDSDGGPLTCEEGCGRWQAQITSPFGGGRNRP 273  
Db QAERI---VLPSSLCAHPQGHKDKCQDSDGGPLTCLDGGSWVLVGVVSMKGCALENRP 261  
205 QAERI---VLPSSLCAHPQGHKDKCQDSDGGPLTCLDGGSWVLVGVVSMKGCALENRP 261

QY 274 GVFTAVATYEAMIREQV 290  
||:|:||||| ||:|:  
Db 262 GVTYSVATYSPWIOARV 278

US-09-386-653A-7

```

? Sequence 7, Application US/09386653A
? Patent No. 6458564
? GENERAL INFORMATION:
? APPLICANT: Andrade-Gordon, Patricia
? APPLICANT: Barrow, Andrew
? APPLICANT: Qi, Jian-shen
? TITLE OF INVENTION: DNA encoding the novel human serine
? FILE OF INVENTION: protease 7
? FILE REFERENCE: ORT-1032
? CURRENT APPLICATION NUMBER: US/09/386,653A
? CURRENT FILING DATE: 1997-08-31
? NUMBER OF SEQ ID NOS: 11
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO 7
? LENGTH: 290
? TYPE: PRT
? ORGANISM: Homo sapiens
? US-09-386-653A-7

```

Query Match	28.8%;	Score 563;	DB 4;	Length 290;
Best Local Similarity	42.2%;	Pred. No. 8.6e-44;		
Matches 117;	Conservative 32;	Mismatches 114;	Indels 14;	Gaps 6;

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QY      32  RGGPEYCRPEPESAIIVGGSNAQPEFTWPEQVSLHHGGGII CGGSIIAPSMVLSAALCEMT  91
Db      20  AKATACGRPEPMINRWGGQDPTQBEEMPEQVSI QNNGSHFFCGGSLIAEQWVLTAHNCF--  77

QY      92  NGTLEPAEWSVLLGVSHQDGPDLGAHTRAVAAIIVPAN--YSQVELGADLALIRLASPA  149
Db      78  RNTSTETSL-YQVLLIGARQIVQP--GPHMYARVRQVESNPLTQGTASASDVAVLVELEAPV  134

QY      150  SLGPAVMVVCCLPRASHRFVHGAFCMATGWDGVQEADPELTPMVLQVEVRLRLGEATCOQCL  209
Db      135  PFTNYILFVCLPDESVITFETGMNCVYTGWGSSEEDLPERPILQLTAPIIIDTRCNLL  194

QY      210  YSQPEPMLTLQILFG-MLCAGYPEGRDTCQDGGSGPLVCBGGHMFQAGITTSFQFGCG  268
Db      195  YSKTLEFYQPKTINMDMLCAGFEFGKXDCAGGDSGGLPLVCVQSWTLQAGVISWEGGCA  254

QY      269  RNRPGVFTVAITYAMTRQEQMSEPEPGPAFTFOQX  305
Db      255  RQNRPGVITRVTAHNMVLRHLL-----PKLOFQPAR  285

```

## RESULT 4

```

US-09-387-375-9
Sequence 9, Application US/09387375
Patent No. 6485957
GENERAL INFORMATION:
APPLICANT: Darrow, Andrew
APPLICANT: Andrade-Gordon, Patricia
APPLICANT: Qi, Jenson
TITLE OF INVENTION: DNA Encoding the Human Serine
TITLE OF INVENTION: Protease EOS
FILE REFERENCE: ORT-1031
CURRENT APPLICATION NUMBER: US/09/387,375
CURRENT FILING DATE: 1999-08-31
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn Ver. 2.0
SRQ ID NO 9
LENGTH: 316
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Description of Artificial Sequence: Amino acid
OTHER INFORMATION: Sequence of EOS zymogen fusion gene

```



Matches 114; Conservative 41; Mismatches 123; Indels 12; Gaps 4;

QY 7 LGGGCGTFTSTLLASTAIIINARIPVPACGKPOLNRVVGEDSTSEMPWVISIOK 66  
Db 10 LGGGCGTFTSTLLASTAIIINARIPVPACGKPOLNRVVGEDSTSEMPWVISIOK 69  
QY 67 GGGHICGSSLIPSWTLSAHCMTNMTGTEPPAEMSVLLGVHSQDPELDGAHRAVAATV 126  
Db 70 NCTHRCAGSLTISRWTITAHCFKDN--LNKPYLFSVLLGAWQLGNPSRSQKVAVAYE 127  
QY 127 VPANTSOVE--LGADIALTLRLASPAISGPAWVPVCLPRASHRFVHGACWATGWDVQEAD 185  
Db 128 PRRVYSWKAGACADIALVALERSIOFSERVLPICLPDASIHLPNTHCWTISGWSIQDGV 187  
QY 186 PLPLPWLTQEVRLIGERTCCQLY--SOPGFNLTLOILPQMLCACTPBGRRDTCQD 242  
Db 188 PLPHPQTLOKTKVPIIDSEVCSHLVWRGAGQGP-----ITEDMLCAGYLEGRDACLGD 241  
QY 243 SGGPLVCEBGRWFQAGITSFGRGGRNRPGVFTAVATYEAWIRQVWG 292  
Db 242 SGGPLMCQVDGAWMLAGIISWBGCAERNRPGVYISLSAHSRWEKIVQG 291

RESULT 8  
US-09-907-794A-263  
Sequence 263, Application US/09907794A  
Patent No. 6635468  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Raton, Dan L.  
APPLICANT: Ferreira, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerltzen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Grimaldi, Paul J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Thomas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/907, 794A  
CURRENT FILING DATE: 2001-07-17  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547

PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/28565  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30911  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US00/00219  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 263  
LENGTH: 317  
TYPE: PRT  
ORGANISM: Homo Sapien  
US-09-907-794A-263

Query Match 27.9%; Score 544; DB 4; Length 317;  
Best Local Similarity 39.3%; Pred. No. 5, 4e-42;  
Matches 114; Conservative 41; Mismatches 123; Indels 12; Gaps 4;

QY 7 LGGGCGTFTSTLLASTAIIINARIPVPACGKPOLNRVVGEDSTSEMPWVISIOK 66  
Db 10 LGGGCGTFTSTLLASTAIIINARIPVPACGKPOLNRVVGEDSTSEMPWVISIOK 69  
QY 67 GGGHICGSSLIPSWTLSAHCMTNMTGTEPPAEMSVLLGVHSQDPELDGAHRAVAATV 126  
Db 70 NCTHRCAGSLTISRWTITAHCFKDN--LNKPYLFSVLLGAWQLGNPSRSQKVAVAYE 127  
QY 127 VPANTSOVE--LGADIALTLRLASPAISGPAWVPVCLPRASHRFVHGACWATGWDVQEAD 185  
Db 128 PRRVYSWKAGACADIALVALERSIOFSERVLPICLPDASIHLPNTHCWTISGWSIQDGV 187  
QY 186 PLPLPWLTQEVRLIGERTCCQLY--SOPGFNLTLOILPQMLCACTPBGRRDTCQD 242  
Db 188 PLPHPQTLOKTKVPIIDSEVCSHLVWRGAGQGP-----ITEDMLCAGYLEGRDACLGD 241  
QY 243 SGGPLVCEBGRWFQAGITSFGRGGRNRPGVFTAVATYEAWIRQVWG 292  
Db 242 SGGPLMCQVDGAWMLAGIISWBGCAERNRPGVYISLSAHSRWEKIVQG 291

RESULT 9  
US-09-905-125A-263  
Sequence 263, Application US/09905125A  
Patent No. 6664376  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Raton, Dan L.  
APPLICANT: Ferreira, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerltzen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Grimaldi, Paul J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Kijavlin, Ivar J.



```

? APPLICANT: Mather, Jennie P.
? APPLICANT: Pan, James
? APPLICANT: Paoni, Nicholas F.
? APPLICANT: Roy, Margaret Ann
? APPLICANT: Stewart, Timothy A.
? APPLICANT: Tumas, Daniel
? APPLICANT: Williams, P. Mickey
? APPLICANT: Wood, William, I.
? TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
? TITLE OF INVENTION: Acids Encoding the Same
? FILE REFERENCE: 10466-14
? CURRENT APPLICATION NUMBER: US/09/905.125A
? CURRENT FILING DATE: 2001-07-12
? PRIOR APPLICATION NUMBER: PCT/US00/004414
? PRIOR FILING DATE: 2000-02-22
? PRIOR APPLICATION NUMBER: US 60/143, 048
? PRIOR FILING DATE: 1999-07-07
? PRIOR APPLICATION NUMBER: US 60/145, 698
? PRIOR FILING DATE: 1999-07-26
? PRIOR APPLICATION NUMBER: US 60/146, 222
? PRIOR FILING DATE: 1999-07-28
? PRIOR APPLICATION NUMBER: PCT/US99/20594
? PRIOR FILING DATE: 1999-09-08
? PRIOR APPLICATION NUMBER: PCT/US99/20944
? PRIOR FILING DATE: 1999-09-13
? PRIOR APPLICATION NUMBER: PCT/US99/21090
? PRIOR FILING DATE: 1999-09-15
? PRIOR APPLICATION NUMBER: PCT/US99/21547
? PRIOR FILING DATE: 1999-09-15
? PRIOR APPLICATION NUMBER: PCT/US99/23089
? PRIOR FILING DATE: 1999-10-05
? PRIOR APPLICATION NUMBER: PCT/US99/28214
? PRIOR FILING DATE: 1999-11-29
? PRIOR APPLICATION NUMBER: PCT/US99/28313
? PRIOR FILING DATE: 1999-11-30
? PRIOR APPLICATION NUMBER: PCT/US99/28564
? PRIOR FILING DATE: 1999-12-02
? PRIOR APPLICATION NUMBER: PCT/US99/28565
? PRIOR FILING DATE: 1999-12-02
? PRIOR APPLICATION NUMBER: PCT/US99/30095
? PRIOR FILING DATE: 1999-12-16
? PRIOR APPLICATION NUMBER: PCT/US99/30911
? PRIOR FILING DATE: 1999-12-20
? PRIOR APPLICATION NUMBER: PCT/US99/30999
? PRIOR FILING DATE: 1999-12-20
? PRIOR APPLICATION NUMBER: PCT/US00/00219
? PRIOR FILING DATE: 2000-01-05
? NUMBER OF SEQ ID NOS: 423
? SEQ ID NO 263
? LENGTH: 317
? TYPE: PRT
? ORGANISM: Homo Sapien
? US-09-905-125A-263

Query Match 27.9%; Score 544; DB: 4; Length 317;
Best Local Similarity 39.3%; Pred. No. 5.4e-42;
Matches 114; Conservative 41; Mismatches 123; Indels 12; Gaps 4

QY 7 LGPQLGAVANSDSYSHYLGVPSGPARPPYCGRDEPSARIYVGSNAQGTWPMQVSLNH 66
Db 10 LGGGCLGTFNLSLLASTALINARIIPVPACGKQQLNRYVGGEDSDSEWPIVLSIOK 69
QY 67 GGGHICGGSLIAPSWTSAACHFMTNGLTFLAEMSYLTLGHSQDGRIDGATRAVAIV 126
Db 70 NGTHICGSLTSTWMTTAAHCFQDN--LNKPYLFSVLLGAMQLANPSRSOKVGAWE 127
QY 127 VPANYSQVE-IGADIALIRLASPAISLGEAVWPVCLPRASHRFVHGTACMATGMDVQBAD 185
Db 128 PHRYVSWKEGACADIALVRLERSIQFSERVALPICRPDASINLPRYTHCMISGWSIQDGV 187
QY 186 PLPLPFWLQVEVLEKILGEATGQCLY---SQGRFWLTLQILPMTLCAGYPSGRAPYTCQGD 242
Db 188 PLPLPFWLQKIKVRLIDSEVSHLYWRGAGGP-----ITEDMTCAGYLBGRACIGD 241

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Db

242 SGGSELMQCYDGMMLAGIISWEGCGERRRPCGYIISLSAHRMWEKTVQG 291

RESULT 10  
US-09-902-775A-263

/ Sequence 263, Application US/09902775A

/ Patent No. 6686451

/ GENERAL INFORMATION:

/ APPLICANT: Genentech, Inc.

/ APPLICANT: Ashkenazi, Avi

/ APPLICANT: Botstein, David

/ APPLICANT: Desnoyers, Luc

/ APPLICANT: Baton, Dan L.

/ APPLICANT: Ferrara, Napoleone

/ APPLICANT: Filvaroff, Ellen

/ APPLICANT: Fong, Sherman

/ APPLICANT: Gao, Wei-Qiang

/ APPLICANT: Gerber, Hanspeter

/ APPLICANT: Gerritsen, Mary E.

/ APPLICANT: Goddard, A.

/ APPLICANT: Godowski, Paul J.

/ APPLICANT: Grimaldi, Christopher J.

/ APPLICANT: Gurney, Austin L.

/ APPLICANT: Hillan, Kenneth, J.

/ APPLICANT: Kijavlin, Ivar J.

/ APPLICANT: Mather, Jennie P.

/ APPLICANT: Pan, James

/ APPLICANT: Paoni, Nicholas F.

/ APPLICANT: Roy, Margaret Ann

/ APPLICANT: Stewart, Timothy A.

/ APPLICANT: Tumas, Daniel

/ APPLICANT: Williams, P. Mickey

/ APPLICANT: Wood, William, I.

/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same

/ FILE REFERENCE: 10466-14

/ CURRENT APPLICATION NUMBER: US/09/902,775A

/ CURRENT FILING DATE: 2001-07-10

/ PRIOR APPLICATION NUMBER: PCT/US00/04414

/ PRIOR FILING DATE: 2000-02-22

/ PRIOR APPLICATION NUMBER: US 60/1443,048

/ PRIOR FILING DATE: 1999-07-07

/ PRIOR APPLICATION NUMBER: US 60/145,698

/ PRIOR FILING DATE: 1999-07-26

/ PRIOR APPLICATION NUMBER: US 60/146,222

/ PRIOR FILING DATE: 1999-07-28

/ PRIOR APPLICATION NUMBER: PCT/US99/20594

/ PRIOR FILING DATE: 1999-09-08

/ PRIOR APPLICATION NUMBER: PCT/US99/20944

/ PRIOR FILING DATE: 1999-09-13

/ PRIOR APPLICATION NUMBER: PCT/US99/21090

/ PRIOR FILING DATE: 1999-09-15

/ PRIOR APPLICATION NUMBER: PCT/US99/21547

/ PRIOR FILING DATE: 1999-09-15

/ PRIOR APPLICATION NUMBER: PCT/US99/23089

/ PRIOR FILING DATE: 1999-10-05

/ PRIOR APPLICATION NUMBER: PCT/US99/28214

/ PRIOR FILING DATE: 1999-11-29

/ PRIOR APPLICATION NUMBER: PCT/US99/28313

/ PRIOR FILING DATE: 1999-11-30

/ PRIOR APPLICATION NUMBER: PCT/US99/28564

/ PRIOR FILING DATE: 1999-12-02

/ PRIOR APPLICATION NUMBER: PCT/US99/28565

/ PRIOR FILING DATE: 1999-12-02

/ PRIOR APPLICATION NUMBER: PCT/US99/30095

/ PRIOR FILING DATE: 1999-12-16

/ PRIOR APPLICATION NUMBER: PCT/US99/30911

/ PRIOR FILING DATE: 1999-12-20

/ PRIOR APPLICATION NUMBER: PCT/US99/30999

/ PRIOR FILING DATE: 1999-12-20

PRIOR APPLICATION NUMBER: PCT/US00/00219  
 PRIOR FILING DATE: 2000-01-05  
 NUMBER OF SEQ ID NOS: 423

SEQ ID NO 263  
 LENGTH: 317  
 TYPE: PRT  
 ORGANISM: Homo Sapien  
 US-09-902-775A-263

Query Match 27.6%; Score 544; DB 4; Length 317;  
 Best Local Similarity 39.3%; Pred. No. 5,4e-42;  
 Matches 114; Conservative 41; Mismatches 123; Indels 12; Gaps 4;

QY 7 LEPGQAGVANSYSVLYGVSPGAPRGPYCGRPSPASIVGSGNAOQGTWPMQVSLHH 66  
 DB 10 LGGGCGITSTLLASTIATIAARIPEVPACKPQOLNKKVGGESTSEPMWISLQK 69  
 QY 67 GGGHICGGSLIAPSWLSAHCFTNGTLEPAEWSVLLGVHSQDGPDLGAHTRAVAALIV 126  
 DB 70 NCHHCAGSLTSRWITTAHCFKDN--LNKPYLFVLLIGAMQLGMPGSRSGKVAVAYE 127  
 QY 127 VANANSQVE--LGADLALFLASPAISGPAWVPCLPRAHRRVHGTACMAATGMDVQAD 185  
 DB 128 PHPVYSWKEGACADIALVRLERSIQFSEVLPICLPDASIHLPNTHCWSIGWSTIQDGV 187  
 QY 186 PLPLPWLQEVRLILGKATCCQCLY---SQPGFNLTLQILPGMLCAGYPEGRRDTCQGD 242  
 DB 188 PLPHQTLQKAVPIITDSVCSHLVYKAGQGP-----ITEDMLCAGLLEGRDCLGD 241  
 QY 243 SGGPVCEEGGRWFQAGITSPFGCGRRNRPVFTVAATYEAATREQVNG 292  
 DB 242 SGGPIMCQVDGAMLLAGIISWBGCAERNRPGVYISLSAHRSMVEKIVQ 291

RESULT 11  
 US-09-027-337-2  
 ; Sequence 2, Application US/09027337B  
 ; Patent No. 5972616

GENERAL INFORMATION:  
 APPLICANT: O'Brien, Timothy J.  
 TITLE OF INVENTION: TADG-15: An Extracellular Serine Protease Overexpressed in  
 TITLE OF INVENTION: Breast and Ovarian Carcinomas  
 FILE REFERENCE: D6064  
 CURRENT APPLICATION NUMBER: US/09/027,337B  
 CURRENT FILING DATE: 1998-02-20  
 NUMBER OF SEQ ID NOS: 13  
 SEQ ID NO 2  
 LENGTH: 855  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 FEATURE:  
 OTHER INFORMATION: Amino acid sequence of TADG-15 encoded by nucleotides  
 ; Patent No. 5972616  
 ; US-09-027-337-2

Query Match 27.6%; Score 540; DB 2; Length 855;  
 Best Local Similarity 40.2%; Pred. No. 4,8e-41;  
 Matches 113; Conservative 39; Mismatches 95; Indels 34; Gaps 7;

QY 32 ARGPPYCGRREP-----SARIVGSNAOQGTWPMQVSLHH--GGGHI 71  
 DB 581 SKGNPECDCKEKDSGDSDEKDDCCGLRSTFRQARVVGTDADGEMPMQVSLHALGQGH 640  
 QY 72 CGGSLIAPSWLSAHCFTNG--TLEPAEWSVLLGVHSQ--DGPLDGAHTRAVAALIVP 128  
 DB 641 CCASLISPMWIVSAHCYIDDRGFYSPTQWTAFLGLHDQGSASAPGVQEEERLKKIISH 700  
 QY 129 ANYSQVELGADLALRLASPAISGPAWVPCLPRAHRRVHGTACMAATGMDVQADPLP 188  
 DB 701 PPFNDFTDYDIALLELRPAEYSSWVRPILCPDASHVPAGKALVWTGHTQYGGTGA 760

QY 189 LPWVLOEVELRLIGRATCCQCLYSQPGPFNLTLQILPGMLCAGYPEGRRDTCQDSSGAPL- 247  
 DB 761 L--ILQKGRIRYINQTTGENTLHPQ-----QIPRMWCVFLSGVDSCQDSSGAPLS 810

QY 248 VCEEGGRWFQAGITSPFGCGRRNRPVFTVAATYEAATRE 288  
 DB 811 SYEADGRIFQAGVWSDGCAQNRKRGVYTRILPFRDWIKE 851

RESULT 12  
 US-09-644-600-2  
 ; Sequence 2, Application US/09644600  
 ; Patent No. 6451500

GENERAL INFORMATION:  
 APPLICANT: O'Brien, Timothy J.  
 TITLE OF INVENTION: TADG-15: An Extracellular Serine Protease  
 TITLE OF INVENTION: Overexpressed in Carcinomas  
 FILE REFERENCE: D6064CIP/D  
 CURRENT APPLICATION NUMBER: US/09/644,600  
 CURRENT FILING DATE: 2000-08-23  
 PRIOR APPLICATION NUMBER: 09/421,213  
 PRIOR FILING DATE: 1998-10-20  
 PRIOR APPLICATION NUMBER: 09/027,337  
 PRIOR FILING DATE: 1998-02-20  
 NUMBER OF SEQ ID NOS: 98  
 SEQ ID NO 2  
 LENGTH: 855  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 FEATURE:  
 OTHER INFORMATION: TADG-15  
 ; US-09-644-600-2

Query Match 27.6%; Score 540; DB 4; Length 855;  
 Best Local Similarity 40.2%; Pred. No. 4,8e-41;  
 Matches 113; Conservative 39; Mismatches 95; Indels 34; Gaps 7;

QY 32 ARGPPYCGRREP-----SARIVGSNAOQGTWPMQVSLHH--GGGHI 71  
 DB 581 SKGNPECDCKEKDSGDSDEKDDCCGLRSTFRQARVVGTDADGEMPMQVSLHALGQGH 640  
 QY 72 CGGSLIAPSWLSAHCFTNG--TLEPAEWSVLLGVHSQ--DGPLDGAHTRAVAALIVP 128  
 DB 641 CCASLISPMWIVSAHCYIDDRGFYSPTQWTAFLGLHDQGSASAPGVQEEERLKKIISH 700  
 QY 129 ANYSQVELGADLALRLASPAISGPAWVPCLPRAHRRVHGTACMAATGMDVQADPLP 188  
 DB 701 PPFNDFTDYDIALLELRPAEYSSWVRPILCPDASHVPAGKALVWTGHTQYGGTGA 760  
 QY 189 LPWVLOEVELRLIGRATCCQCLYSQPGPFNLTLQILPGMLCAGYPEGRRDTCQDSSGAPL- 247  
 DB 761 L--ILQKGRIRYINQTTGENTLHPQ-----QIPRMWCVFLSGVDSCQDSSGAPLS 810  
 QY 248 VCEEGGRWFQAGITSPFGCGRRNRPVFTVAATYEAATRE 288  
 DB 811 SYEADGRIFQAGVWSDGCAQNRKRGVYTRILPFRDWIKE 851

RESULT 13  
 US-09-654-600A-2  
 ; Sequence 2, Application US/09654600A  
 ; Patent No. 6649741

GENERAL INFORMATION:  
 APPLICANT: O'Brien, Timothy J.  
 TITLE OF INVENTION: TADG-15: An Extracellular Serine Protease  
 TITLE OF INVENTION: Overexpressed in Carcinomas  
 FILE REFERENCE: D6064CIP/D  
 CURRENT APPLICATION NUMBER: US/09/654,600A  
 CURRENT FILING DATE: 2000-09-01  
 PRIOR APPLICATION NUMBER: 09/421,213  
 ; 09/027,337

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/ PRIOR FILING DATE: 1999-10-20
/ 1998-02-20
/ NUMBER OF SEQ ID NOS: 98
/ SEQ ID NO 2
/ LENGTH: 855
/ TYPE: PKT
/ ORGANISM: Homo sapiens
/ FEATURE:
/ OTHER INFORMATION: TADG-15
US-09-654-600A-2

Query Match      27.6%; Score 540; DB 4; Length 855;
Best Local Similarity 40.2%; Pred. No. 4.8e-41;
Matches 113; Conservative 39; Mismatches 95; Indels 34; Gaps 7;

Qy 32 ARGPYGRPRP-----SARVGSNQPRTWPMQVSLHH-GGGHI 71
Db 581 SKNPBCKGKDCSDGSDKDCDGLNSFTROARVGGTADBEGRWPQVSLHAGQHI 640
Qy 72 CGSLIAPSWLSAHCMTNG--TLPEAEMSVLLGVHSQ-DGPLDGAHTRAAVAIVP 128
Db 641 CGASLIPSNMVLVSAHCHIDRGRYSDPTQMTAFLEIHDQSQSAAPGVQRRLKRIISH 700
Qy 129 ANISQVBLGADLAILRLASPSLGPVAVPCLPRASRFFVHTACMATGMDVQEADPLP 188
Db 701 PFPPDFPFYDIALILREKPAEYSSMVRPICLPASHVFPAGKAIWVGWGHITQYGGTGA 760
Qy 189 LPWLOEVELRLGEATQCCLYSQGPENLTLQILPGMLCAGYPEGRRDTCQDGGGPTL- 247
Db 761 L-LQKKEIRVNIQTTENLLPQ-----QTPRMVCVGFSGGVDSQDGGGGLS 810
Qy 248 VCEEGRWFOAGITSPFGCGRRNRPGVFTAVATEAMIRE 288
Db 811 SVEADGRIFQGVVSWDGCAGRNKRGYTRTLPLFRDIXE 851

RESULT 14
US-09-008-271A-3
/ Sequence 3, Application US/09008271A
/ Patent No. 6203979
/ GENERAL INFORMATION:
/ APPLICANT: Bandman, Olga
/ Hillman, Jennifer L.
/ Yue, Henry
/ Guegler, Karl J.
/ Corley, Neil C.
/ Tang, Tom Y.
/ Shah, Puri
/ TITLE OF INVENTION: HUMAN PROTEASE MOLECULES
/ NUMBER OF SEQUENCES: 24
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Incyte Pharmaceuticals, Inc.
/ STREET: 3174 Porter Dr.
/ CITY: Palo Alto
/ STATE: CA
/ COUNTRY: USA
/ ZIP: 94304
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSeq for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/008, 271A
/ FILING DATE: 16-Jan-1998
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: <Unknown>
/ FILING DATE: <Unknown>
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Mohan-Peterson, Sheela
/ REGISTRATION NUMBER: 41,201
/ REFERENCE/DOCKET NUMBER: PF-0458 US
/ TELECOMMUNICATION INFORMATION:
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TELEPHONE: 650-855-0555
TELEFAX: 650-845-4166
/ INFORMATION FOR SEQ ID NO: 3:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 314 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ IMMEDIATE SOURCE:
/ LIBRARY: PROSTUT03
/ CLONE: 789927
/ SEQUENCE DESCRIPTION: SEQ ID NO: 3 :
US-09-008-271A-3

Query Match      27.4%; Score 534.5; DB 3; Length 314;
Best Local Similarity 39.0%; Pred. No. 4e-41;
Matches 110; Conservative 53; Mismatches 100; Indels 19; Gaps 8;

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Db 26 AAPISGP--CGRVTISRIVGDEADLRGMPWQSLRLMDSHVCQVLSHRMLTAHC 83
Qy 89 FMNIGTLEPAEWSVLLG-VHSQDG--PLDGAHTR-AVAIVPANTSOVELG---ADLA 141
Db 84 FEIYSDISDSGMMWVGQGLTSMPSFWSLQAYYTRFYFSNITYLSPPY----LQNSPYDIA 139
Qy 142 LIRLASPSLGPVAVPCLPRASRFFVHTACMATGMDVQEADPLPLFWLOEVELRL 201
Db 140 LVKLSAPVYTKHIOPLCLOASTFEENRDCDWTGMYTKEDEALBSPHILOEVQVAIT 199
Qy 202 GEATQCCLYSQGPENLTLQILPGMLCAGYPEGRRDTCQDGGGPTLVCEBGRWFOAGIT 261
Db 200 NNSVCNHLFLK--YSRKHIFGDMVCAGNAQGGKDACFGDGGGFLACNKNGLWYQIGVV 256
Qy 262 SFGRCGRRRRPGVFTAVATEAMIRE---QVMSEFGPARP 300
Db 257 SWGVCGGRPNRPGVITINISHFEWIOKLMAQSGNSQDPSPWP 298

RESULT 15
US-09-907-794A-257
/ Sequence 257, Application US/09907794A
/ Patent No. 6635468
/ GENERAL INFORMATION:
/ APPLICANT: Genentech, Inc.
/ Ashkenazi, Avi
/ Botstein, David
/ Desnoyers, Luc
/ APPLICANT: Baton, Dan L.
/ APPLICANT: Ferrara, Napoleone
/ APPLICANT: Filvaroff, Ellen
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Gerber, Hanspeter
/ APPLICANT: Gerritsen, Mary E.
/ APPLICANT: Goddard, A.
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Grimaldi, Christopher J.
/ APPLICANT: Gutney, Austin L.
/ APPLICANT: Hillan, Kenneth, J.
/ APPLICANT: Kijavlin, Ivar J.
/ APPLICANT: Mather, Jennie P.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Williams, P. Mickey
/ APPLICANT: Wood, William, I.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ TITLE OF INVENTION: Acids Encoding the Same
/ FILE REFERENCE: 10466-14
/ CURRENT APPLICATION NUMBER: US/09/907, 794A
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/ CURRENT FILING DATE: 2001-07-17
/ PRIOR APPLICATION NUMBER: PCT/US00/04414
/ PRIOR FILING DATE: 2000-02-22
/ PRIOR APPLICATION NUMBER: US 60/143,048
/ PRIOR FILING DATE: 1999-07-07
/ PRIOR APPLICATION NUMBER: US 60/145,698
/ PRIOR FILING DATE: 1999-07-26
/ PRIOR APPLICATION NUMBER: US 60/146,222
/ PRIOR FILING DATE: 1999-07-28
/ PRIOR APPLICATION NUMBER: PCT/US99/20594
/ PRIOR FILING DATE: 1999-09-08
/ PRIOR APPLICATION NUMBER: PCT/US99/20944
/ PRIOR FILING DATE: 1999-09-13
/ PRIOR APPLICATION NUMBER: PCT/US99/21090
/ PRIOR FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: PCT/US99/21547
/ PRIOR FILING DATE: 1999-09-15
/ PRIOR APPLICATION NUMBER: PCT/US99/23089
/ PRIOR FILING DATE: 1999-10-05
/ PRIOR APPLICATION NUMBER: PCT/US99/28214
/ PRIOR FILING DATE: 1999-11-29
/ PRIOR APPLICATION NUMBER: PCT/US99/28313
/ PRIOR FILING DATE: 1999-11-30
/ PRIOR APPLICATION NUMBER: PCT/US99/28564
/ PRIOR FILING DATE: 1999-12-02
/ PRIOR APPLICATION NUMBER: PCT/US99/28565
/ PRIOR FILING DATE: 1999-12-02
/ PRIOR APPLICATION NUMBER: PCT/US99/30095
/ PRIOR FILING DATE: 1999-12-16
/ PRIOR APPLICATION NUMBER: PCT/US99/30911
/ PRIOR FILING DATE: 1999-12-20
/ PRIOR APPLICATION NUMBER: PCT/US99/30999
/ PRIOR FILING DATE: 1999-12-20
/ PRIOR APPLICATION NUMBER: PCT/US00/00219
/ PRIOR FILING DATE: 2000-01-05
/ NUMBER OF SEQ ID NOS: 423
/ SEQ ID NO 257
/ LENGTH: 314
/ TYPE: PRT
/ ORGANISM: Homo Sapien
US-09-907-794A-257
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Query Match 27.4%; Score 534.5; DB 4; Length 314;
Best Local Similarity 39.0%; Pred. No. 4e-41;
Matches 110; Conservative 53; Mismatches 100; Indels 19; Gaps 8;
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QY 29 SCPARCPYCCGPPBSARIYVGSNAOPGTWPMQVSLHHGGCHI CGSLTAPSWTSAAC 88
DB 26 AAPISGP--CGRRVITSRTVGEDARLGMWPGSLRLWDSHVCVSLSHRWALTAAHC 83
QY 89 PMTNGTLEPAEWSVLLG--VHSODG--PLDGAHTR-AVAATVPANYSOVELG--ADLA 141
DB 84 FETYSIDSPSGMNVQFGQITSMPSWSIQAYITKTFVSNITISPRY---LGNSPYDTA 139
QY 142 LRLASPAISLGAWPVCLPRASHRFVHGTAACWATGMDVQDEADPLPLPWTLOEVELRL 201
DB 140 LKLSAPVYTYTHIQICQASTFEFENRTDCWVTGMYIKEDBALPSHTLOEVQVALI 199
QY 202 GEAATCCCLYSQGFPMULTIQLPGLMCAVYBEGRBDTCOGDSGGPLVCEBGRWFPAGIT 261
DB 200 NNSMCMHLPLK--YSFRDIFGDWCAANAQGGKDACFGDSGGLACNKGILMYQIGVV 256
QY 262 SFGFGGGRNRPPGVFTAVATYEAWIRE--QVWGSPPAPF 300
DB 257 SNGVGCGRPNRPQVYTNISHHFWNIQKMAQSGMSQDPDSWP 298
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Search completed: July 30, 2004, 08:46:08  
Job time : 20 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

## OM protein - protein search, using SW model

Run on: July 30, 2004, 08:44:48 ; Search time 46 Seconds  
(without alignments)  
2434.452 Million cell updates/sec

Title: US-10-037-417-46

Perfect score: 1953  
Sequence: 1 MAOKGYLPGPOLGAVANSDS.....TKSLIVLPWLSPHSLIGHMCF 357

## Scoring table:

BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1291235 seqs, 313682936 residues

Total number of hits satisfying chosen parameters: 1291235

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

## Database :

Published Applications AA:\*  
1: /cgn2\_6/ptodata/1/pubppaa/US07\_PUBCOMB.pep:\*  
2: /cgn2\_6/ptodata/1/pubppaa/PCT\_NEW\_PUB.pep:\*  
3: /cgn2\_6/ptodata/1/pubppaa/US06\_NEW\_PUB.pep:\*  
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18: /cgn2\_6/ptodata/1/pubppaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1953	100.0	357	12 US-10-037-417-46	Sequence 46, App1
2	1874	96.0	344	12 US-10-037-417-44	Sequence 44, App1
3	1505	77.1	818	9 US-09-888-615-111	Sequence 111, App1
4	690	35.3	343	9 US-09-948-094-2	Sequence 2, App1
5	690	35.3	343	12 US-10-042-865-150	Sequence 150, App
6	690	35.3	343	12 US-10-037-417-130	Sequence 130, App
7	690	35.3	343	14 US-10-176-847-86	Sequence 86, App1
8	690	35.3	343	14 US-10-097-340-262	Sequence 262, App
9	690	35.3	343	15 US-10-074-566-125	Sequence 125, App
10	690	35.3	343	16 US-10-311-591A-3	Sequence 3, App1
11	645	33.0	307	12 US-10-042-865-30	Sequence 30, App1
12	631	32.3	342	12 US-10-042-865-154	Sequence 154, App
13	630.5	32.3	339	12 US-10-042-865-153	Sequence 153, App
14	627.5	32.3	339	14 US-10-109-616-2	Sequence 2, App1
15	621	31.8	342	12 US-10-042-865-151	Sequence 151, App

16	621	31.8	342	12 US-10-037-417-133	Sequence 133, App
17	621	31.8	342	15 US-10-051-874-86	Sequence 86, App1
18	620	31.7	342	12 US-10-042-865-152	Sequence 152, App
19	620	31.7	342	12 US-10-037-417-134	Sequence 134, App
20	620	31.7	342	15 US-10-051-874-87	Sequence 87, App1
21	612	31.3	386	12 US-10-042-865-32	Sequence 32, App1
22	593.5	30.4	282	16 US-10-451-168-98	Sequence 98, App1
23	590	30.2	272	16 US-10-311-591A-6	Sequence 6, App1
24	590	30.2	280	15 US-10-051-874-26	Sequence 26, App1
25	590	30.2	280	16 US-10-451-168-97	Sequence 97, App1
26	590	30.2	280	16 US-10-470-390A-36	Sequence 36, App1
27	590	30.2	284	13 US-10-041-400A-7	Sequence 7, App1
28	590	30.2	284	13 US-10-041-264A-7	Sequence 7, App1
29	590	30.2	284	13 US-10-042-091A-7	Sequence 7, App1
30	583.5	29.9	285	15 US-10-051-874-89	Sequence 89, App1
31	582.5	29.8	346	16 US-10-311-035-8	Sequence 8, App1
32	582	29.8	691	16 US-10-275-505-13	Sequence 13, App1
33	575.5	29.5	255	14 US-10-221-097-36	Sequence 36, App1
34	574	29.4	262	16 US-10-311-591A-2	Sequence 2, App1
35	567	29.0	389	12 US-10-037-417-131	Sequence 131, App
36	567	29.0	389	15 US-10-074-978A-219	Sequence 219, App
37	563	28.8	290	11 US-09-833-245-1294	Sequence 1294, App
38	563	28.8	290	12 US-10-147-493-222	Sequence 222, App
39	563	28.8	290	12 US-10-145-127-222	Sequence 222, App
40	563	28.8	290	12 US-10-160-503-222	Sequence 222, App
41	563	28.8	290	12 US-10-143-118-222	Sequence 222, App
42	563	28.8	290	12 US-10-144-993-222	Sequence 222, App
43	563	28.8	290	12 US-10-158-787-222	Sequence 222, App
44	563	28.8	290	12 US-10-140-024-222	Sequence 222, App
45	563	28.8	290	12 US-10-140-808-222	Sequence 222, App

## ALIGNMENTS

RESULT 1  
US-10-037-417-46  
Sequence 46, Application US/10037417  
Publication No. US20040052806A1  
GENERAL INFORMATION:  
APPLICANT: Kekuda, Ramesh  
APPLICANT: Alsobrook II, John P  
APPLICANT: Tchiernev, Velizar T  
APPLICANT: Liu, Xiaohong  
APPLICANT: Spytsek, Kimberly A  
APPLICANT: Patrujanian, Meera  
APPLICANT: Grose, William M  
APPLICANT: Lepley, Denise M  
APPLICANT: Burgess, Catherine E  
APPLICANT: Vernet, Corine A.M.  
APPLICANT: Li, Li  
APPLICANT: Gorman, Linda  
APPLICANT: Edinger, Shlomit R  
APPLICANT: Sciore, Paul  
APPLICANT: Ellerman, Karen  
APPLICANT: Malyanekar, Uriel M  
APPLICANT: Rothenberg, Mark  
APPLICANT: Stone, David J  
APPLICANT: Boldog, Ferenc L  
APPLICANT: Guo, Xiaojia  
APPLICANT: Shenoy, Suresh G  
APPLICANT: Anderson, David W  
APPLICANT: Padigaru, Muralidhara  
APPLICANT: Taulier Jr, Raymond J  
APPLICANT: Miller, Charles E  
APPLICANT: Eissen, Andrew J  
TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same  
FILE REFERENCE: 21402-235  
CURRENT APPLICATION NUMBER: US/10/037,417  
CURRENT FILING DATE: 2002-09-20  
PRIOR APPLICATION NUMBER: 60/260,018  
PRIOR FILING DATE: 2001-01-05  
PRIOR APPLICATION NUMBER: 60/260,360

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; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/272,411
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/272,817
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: 60/291,186
; PRIOR FILING DATE: 2001-05-15
; PRIOR APPLICATION NUMBER: 60/303,231
; PRIOR FILING DATE: 2001-07-05
; PRIOR APPLICATION NUMBER: 60/305,060
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 60/318,405
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/318,700
; PRIOR FILING DATE: 2001-09-12
; NUMBER OF SEQ ID NOS: 227
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 46
; LENGTH: 357
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-037-417-46

Query Match          100.0%; Score 1953; DB 12; Length 357;
Best Local Similarity 100.0%; Pred. No. 3,1e-161;
Matches 357; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MAOKGVLPGRGQLGAVANSYSYLYGVSPGAPGPPYCGRPSPARIVGGSNAOGCTWPM 60
QY 61 QVSLHHGGHICGGSLIAPSWTISAACHCMTNGTLEPPAEMSVLLGVHSQDGPDLGAHTR 120
DB 61 QVSLHHGGHICGGSLIAPSWTISAACHCMTNGTLEPPAEMSVLLGVHSQDGPDLGAHTR 120
QY 121 AVAAIVPANYSQVBLGADIALRLASPASLGPVAVPCLPASRPFVHGTACMATGMD 180
DB 121 AVAAIVPANYSQVBLGADIALRLASPASLGPVAVPCLPASRPFVHGTACMATGMD 180
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DB 181 VOEADPLPLPWLYOEVELRLGEATQCCLYSQPGFNNLTQILPGLCAGYEGRRDTCQ 240
QY 241 GDSGGLVCEBGRWFOAGITSFRCGGRNRPGVTAATVATYEAWMIREQVMSSEPGAPF 300
DB 241 GDSGGLVCEBGRWFOAGITSFRCGGRNRPGVTAATVATYEAWMIREQVMSSEPGAPF 300
QY 301 TOPKQTQSDCLHQTAFILDSARILRLPLSHISVGVSTGTSKSLVLPMLSPHSLLGLMGF 357
DB 301 TOPKQTQSDCLHQTAFILDSARILRLPLSHISVGVSTGTSKSLVLPMLSPHSLLGLMGF 357

RESULT 2
US-10-037-417-44
; Sequence 44, Application US/10037417
; Publication No. US20040052806A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Alsobrook II, John P
; APPLICANT: Toherney, Velizar T
; APPLICANT: Liu, Xiaohong
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Patutajan, Meera
; APPLICANT: Grose, William M
; APPLICANT: Lepley, Denise M
; APPLICANT: Burgess, Catherine E
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Li, Li
; APPLICANT: Gorman, Linda
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Sciore, Paul
; APPLICANT: Eberman, Karen
; APPLICANT: Malysankar, Uriel M
```

```

; APPLICANT: Rothenberg, Mark
; APPLICANT: Stone, David J
; APPLICANT: Boldog, Retenc L
; APPLICANT: Guo, Xiaojia
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Anderson, David W
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Taupier Jr, Raymond J
; APPLICANT: Miller, Charles E
; APPLICANT: Eissen, Andrew J
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-235
; CURRENT APPLICATION NUMBER: US/10/037,417
; PRIOR FILING DATE: 2002-09-20
; PRIOR APPLICATION NUMBER: 60/260,018
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: 60/260,360
; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: 60/272,411
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/272,817
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: 60/291,186
; PRIOR FILING DATE: 2001-05-15
; PRIOR APPLICATION NUMBER: 60/303,231
; PRIOR FILING DATE: 2001-07-05
; PRIOR APPLICATION NUMBER: 60/305,060
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 60/318,405
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: 60/318,700
; PRIOR FILING DATE: 2001-09-12
; NUMBER OF SEQ ID NOS: 227
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
; LENGTH: 344
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-037-417-44

Query Match          96.0%; Score 1874; DB 12; Length 344;
Best Local Similarity 100.0%; Pred. No. 2,2e-154;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAOKGVLPGRGQLGAVANSYSYLYGVSPGAPGPPYCGRPSPARIVGGSNAOGCTWPM 60
DB 1 MAOKGVLPGRGQLGAVANSYSYLYGVSPGAPGPPYCGRPSPARIVGGSNAOGCTWPM 60
QY 61 QVSLHHGGHICGGSLIAPSWTISAACHCMTNGTLEPPAEMSVLLGVHSQDGPDLGAHTR 120
DB 61 QVSLHHGGHICGGSLIAPSWTISAACHCMTNGTLEPPAEMSVLLGVHSQDGPDLGAHTR 120
QY 121 AVAAIVPANYSQVBLGADIALRLASPASLGPVAVPCLPASRPFVHGTACMATGMD 180
DB 121 AVAAIVPANYSQVBLGADIALRLASPASLGPVAVPCLPASRPFVHGTACMATGMD 180
QY 181 VOEADPLPLPWLYOEVELRLGEATQCCLYSQPGFNNLTQILPGLCAGYEGRRDTCQ 240
DB 181 VOEADPLPLPWLYOEVELRLGEATQCCLYSQPGFNNLTQILPGLCAGYEGRRDTCQ 240
QY 241 GDSGGLVCEBGRWFOAGITSFRCGGRNRPGVTAATVATYEAWMIREQVMSSEPGAPF 300
DB 241 GDSGGLVCEBGRWFOAGITSFRCGGRNRPGVTAATVATYEAWMIREQVMSSEPGAPF 300
QY 301 TOPKQTQSDCLHQTAFILDSARILRLPLSHISVGVSTGTSKSLVLP 344
DB 301 TOPKQTQSDCLHQTAFILDSARILRLPLSHISVGVSTGTSKSLVLP 344

RESULT 3
US-09-888-615-111
; Sequence 111, Application US/09888615
; Patent No. US20020064856A1
```

```

; GENERAL INFORMATION:
; APPLICANT: PLOMMAN, GREGORY
; APPLICANT: WHITE, DAVID
; APPLICANT: CAENEPEEL, SEAN
; APPLICANT: CHARYDCZAK, GLEN
; APPLICANT: MANNING, GERARD
; APPLICANT: SUPARSANAM, SUCHA
; TITLE OF INVENTION: NOVEL PROTEASES
; FILE REFERENCE: 038602/1214
; CURRENT APPLICATION NUMBER: US/09/888,615
; CURRENT FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/214,047
; PRIOR FILING DATE: 2000-06-26
; NUMBER OF SEQ ID NOS: 150
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 111
; LENGTH: 818
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-615-111

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Query Match          77.1%; Score 1505; DB 9; Length 818;
Best Local Similarity 100.0%; Pred. No. 6,9e-122; Indels 0; Gaps 0;
Matches 272; Conservative 0; Mismatches 0;

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QY 38 CGRPSPARIVGSSNAQPGTWPWQVSLHGGGHI CGSSLAPSWTLSAHCFTMTNGTLEP 97
DB 38 CGRPSPARIVGSSNAQPGTWPWQVSLHGGGHI CGSSLAPSWTLSAHCFTMTNGTLEP 97
QY 98 AAESVLLGVHSQDGLDGAHTRAAVAIVPANSYQVLEGLDALIRLASASISGPAWVP 157
DB 98 AAESVLLGVHSQDGLDGAHTRAAVAIVPANSYQVLEGLDALIRLASASISGPAWVP 157
QY 158 VCLPRASHRFHGTACMATGMDVQVADPLPLPWLYQVEELRLGEATCCCLYSQOPGFEN 217
DB 158 VCLPRASHRFHGTACMATGMDVQVADPLPLPWLYQVEELRLGEATCCCLYSQOPGFEN 217
QY 218 LTLOILPMTCAIPEGRDTCQDSDSGPLVCEERGFQAGITSPFGCGRRNRPVFT 277
DB 218 LTLOILPMTCAIPEGRDTCQDSDSGPLVCEERGFQAGITSPFGCGRRNRPVFT 277
QY 278 AVATYEMIRPQWNGSERGPAFTPOQKQSD 309
DB 278 AVATYEMIRPQWNGSERGPAFTPOQKQSD 309

```

```

RESULT 4
US-09-948-094-2
; Sequence 2, Application US/09948094
; Patent No. US20020090625A1
; GENERAL INFORMATION:
; APPLICANT: The Brigham and Women's Hospital, Inc.
; APPLICANT: Mok, Samuel
; APPLICANT: Wong, Kwong-twok
; TITLE OF INVENTION: Methods of Detecting Cancer Based on Prostaasin
; FILE REFERENCE: 81994/282423
; CURRENT APPLICATION NUMBER: US/09/948,094
; CURRENT FILING DATE: 2001-09-07
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-948-094-2

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```

Query Match          35.3%; Score 690; DB 9; Length 343;
Best Local Similarity 43.6%; Pred. No. 1.6e-51;
Matches 156; Conservative 49; Mismatches 129; Indels 24; Gaps 10;
QY 1 MAQGVIGPGLGAVANSDSYSYI-GLVPSGP-----ARGPPYCGRPSPARIVGSSNAQ 55
DB 1 MAQGVIGPGLGAVANSDSYSYI-GLVPSGP-----ARGPPYCGRPSPARIVGSSNAQ 55

```

```

QY 56 GTWPMQVSLHGGGHI CGSSLAPSWTLSAHCFTMTNGTLEPAAEMSVTLGVHSQDGLD 115
DB 56 GTWPMQVSLHGGGHI CGSSLAPSWTLSAHCFTMTNGTLEPAAEMSVTLGVHSQDGLD 115
QY 116 GAHTRAAVAIVPANSYQVLEGLDALIRLASASISGPAWVPCLIRASHRFHGTACMA 175
DB 116 GAHTRAAVAIVPANSYQVLEGLDALIRLASASISGPAWVPCLIRASHRFHGTACMA 175
QY 176 TGMGVDVQADPLPLPWLYQVEELRLGEATCCCLYSQOPGFENLTQILPMTCAIPEGR 235
DB 176 TGMGVDVQADPLPLPWLYQVEELRLGEATCCCLYSQOPGFENLTQILPMTCAIPEGR 235
QY 236 RDTQDSDSGPLVCEERGFQAGITSPFGCGRRNRPVFTAAVYEMIRPQWNGSER 295
DB 236 RDTQDSDSGPLVCEERGFQAGITSPFGCGRRNRPVFTAAVYEMIRPQWNGSER 295
QY 296 GPAFTPOQKQSD--CLHQTAVLDS-ARILRPLSHISVGVSTGYSKLVLPWLSPH 349
DB 296 GPAFTPOQKQSD--CLHQTAVLDS-ARILRPLSHISVGVSTGYSKLVLPWLSPH 349

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RESULT 5
US-10-042-865-150
; Sequence 150, Application US/10042865
; Publication No. US20040029216A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Li, Li
; APPLICANT: Zernusen, Bryan D
; APPLICANT: Casman, Stacie J
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zhong, Mei
; APPLICANT: Gangoli, Esha A
; APPLICANT: Burgess, Catherine E
; APPLICANT: Patturajan, Meera
; APPLICANT: Verne, Corine A.M
; APPLICANT: Taylor, Sarah
; APPLICANT: Tcherenev, Velizar T
; APPLICANT: Miller, Charles E
; APPLICANT: Guo, Xiaojia
; APPLICANT: Boldog, Ferenc L
; APPLICANT: Grose, William M
; APPLICANT: Alebrock II, John P
; APPLICANT: Gerlach, Valerie L
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Rothenberg, Mark E
; APPLICANT: Ellerman, Karen
; APPLICANT: MacDougall, John
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Millet, Isabelle
; APPLICANT: Peyman, John
; APPLICANT: Smithson, Glennda
; APPLICANT: Gunther, Erik
; APPLICANT: Stone, David
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-537
; CURRENT APPLICATION NUMBER: US/10/042,865
; CURRENT FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: 60/260,417
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: 60/260,417
; PRIOR FILING DATE: 2001-01-10
; PRIOR APPLICATION NUMBER: 60/272,338
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/274,876
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: 60/284,704
; PRIOR FILING DATE: 2001-04-18
; NUMBER OF SEQ ID NOS: 264
; SOFTWARE: PatentIn Ver. 2.1

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/ SEQ ID NO 150
/ LENGTH: 343
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-10-042-865-150

Query Match      35.3%; Score 690; DB 12; Length 343;
Best Local Similarity 43.6%; Pred. No. 1.6e-51;
Matches 156; Conservative 49; Mismatches 129; Indels 24; Gaps 10;

QY      1 MAQGVTLGGPQLGVANSDSYSLY-GLVPSGP---ARGPRYCGRPESARIVYGGSNQ 55
DB      1 MAQGVTLGGPQLGVANSDSYSLY-GLVPSGP---ARGPRYCGRPESARIVYGGSNQ 53
QY      56 GTWEPQVSLIHHGGGHHICCGGSLIAPSPWVLSAACHCFMTNGLTLEPAAEMSVTLGVHSDGPID 115
DB      54 GQWEPQVSLIETGVHVCQGGSLVSEQWVLSAACHCFSEHHKE--AYEVKLGHNQIDSYSE 110
QY      116 GAHTRAVAAIVVPANYSQVEHAGADIALIRLSPASPLGAWVPVCLPRASHRPVHGTAACMA 175
DB      111 DAKVSTLLDIIIPHPSTYLCGGSGQDIALIQLSPRTFSRYIRPICHPAANASFPNGLHCTV 170
QY      176 TGWEPVQADPLPLPWVLYQEVYELRLGEATCCQCLYSQCPENULTQILPGMLCAGYPRGR 235
DB      171 TGMGVAAVSLSILTKPKPLQGLEVLISSETCNCLINIDAKPEHHFVQEDWVCAQYVGG 230
QY      236 RDTCCGSDGSPVLCBEGGRWFOAGITSPFGCGRRNRPGVTFVAVATYEAMIREQYMGSEP 295
DB      231 KDACCGSDGSPVLCBEGGRWFOAGITSPFGCGRRNRPGVTFVAVATYEAMIREQYMGSEP 295
QY      296 GPRVPTQKQKQSD---CLHQTAFLDS-ARILLRPLSHSVGVSVGTSLVTPMLSPH 349
DB      289 QPRVPTQKQKQSD---CLHQTAFLDS-ARILLRPLSHSVGVSVGTSLVTPMLSPH 343

RESULT 6
US-10-037-417-130
/ Sequence 130, Application US/10037417
/ Publication No. US20040052806A1
/ GENERAL INFORMATION:
/ APPLICANT: Kekuda, Ramesh
/ APPLICANT: Alsobrook II, John P
/ APPLICANT: Tchernev, Velizar T
/ APPLICANT: Liu, Xiaohong
/ APPLICANT: Spytek, Kimberly A
/ APPLICANT: Patturajan, Meera
/ APPLICANT: Grosse, William M
/ APPLICANT: Lepley, Denise M
/ APPLICANT: Burgess, Catherine B
/ APPLICANT: Vernet, Corine A.M.
/ APPLICANT: Li, Li
/ APPLICANT: Gorman, Linda
/ APPLICANT: Edinger, Shlomit R
/ APPLICANT: Sciore, Paul
/ APPLICANT: Ellerman, Karen
/ APPLICANT: Malyanekar, Uriel M
/ APPLICANT: Rothenberg, Mark
/ APPLICANT: Stone, David U
/ APPLICANT: Boldog, Ferenc L
/ APPLICANT: Guo, Xiaojia
/ APPLICANT: Shenoy, Suresh G
/ APPLICANT: Anderson, David W
/ APPLICANT: Padigaru, Muralidhara
/ APPLICANT: Taupier Jr, Raymond J
/ APPLICANT: Miller, Charles E
/ APPLICANT: Eisen, Andrew J
/ TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
/ FILE REFERENCE: 21402-235
/ CURRENT APPLICATION NUMBER: US/10/037,417
/ PRIOR FILING DATE: 2002-09-20
/ PRIOR APPLICATION NUMBER: 60/260,018
/ PRIOR FILING DATE: 2001-01-05
/ PRIOR APPLICATION NUMBER: 60/260,360

```

```

PRIORITY FILLING DATE: 2001-01-08
PRIORITY APPLICATION NUMBER: 60/272,411
PRIORITY FILING DATE: 2001-02-28
PRIORITY APPLICATION NUMBER: 60/272,817
PRIORITY FILING DATE: 2001-03-02
PRIORITY APPLICATION NUMBER: 60/291,186
PRIORITY FILING DATE: 2001-05-15
PRIORITY APPLICATION NUMBER: 60/303,231
PRIORITY FILING DATE: 2001-07-05
PRIORITY APPLICATION NUMBER: 60/305,060
PRIORITY FILING DATE: 2001-07-12
PRIORITY APPLICATION NUMBER: 60/318,405
PRIORITY FILING DATE: 2001-09-10
PRIORITY APPLICATION NUMBER: 60/318,700
PRIORITY FILING DATE: 2001-09-12
NUMBER OF SEQ ID NOS: 227
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 130
LENGTH: 343
TYPE: PRT
ORGANISM: Homo sapiens
US-10-037-417-130

Query Match          35.3%; Score 690; DB 12; Length 343;
Best Local Similarity 43.6%; Pred. No. 1.6e-51;
Matches 156; Conservative 49; Mismatches 129; Indels 24; Gaps 10;

QY      1  MAQKGVIGPQGLGAVANSDSYSILY-GLVSGP---AKGPPYCGREPPSARIYSGSNAOP 55
DB      1  MAQKGVIGPQGLGAVN-----ILLYLGILRSGTGAGGAEAP--CG-VAPQARIYTGSSAVA 53

QY      56  GTWPMQVSLHHGGGHHICGSLIAPSWLISAHCFTMTGTEPAEWSVLLGVHSODPELD 115
DB      54  GQWPMQVSLYEGVHVCSSLVSEQWVLSAHCPPSHHNE---AYVKGAGQIDLSYSY 110

QY      116  GAHTRAVAATVPANYSQVEIGADLALLRLASPASIGAPAVWPVCLPASHRFVHGTACMA 175
DB      111  DAKSTLTKDIIHPHSYLIQBSQGDIALDQSRPTTFERYIRPCLPANAASFNGILCTV 170

QY      176  TGMGDVQEADPLIPWVLQVEVRLGEATCCCLYSPPGFNNLTQLPMTLCAGYDEGR 235
DB      171  TGMGHVAPSVSLTPKPLQOLEVPLISRCTNCIYNIDAKKEEPHFQVEDMVCAGYVEGG 230

QY      236  RDTQCGSGGPGVLCESGRRWFOAGITSPGCGGRRNNPGFTVATYEAWIRQVMGSEP 295
DB      231  KDACQSGSGGPGVLCSPVHGLWLTGIVSWGACGARRNPGYTTLASSYASTYQSKV--TEL 288

QY      296  GPAEFTPOKTKQSD---CLHQTAFLDS-ARILLRPLSHISGVSTGTKSLVLPWLSPH 349
DB      289  QPRVVPQTQESQPPDSNLCGSHLAFSSAPAGGLARPLIFLPLGLALG--LISPWLSDH 343

RESULT 7
US-10-176-847-86
; Sequence 86, Application US/10176847
; Publication No. US20030068636A1
; GENERAL INFORMATION:
; APPLICANT: Velody, Peter Ole
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
; TITLE OF INVENTION: AND OVARIAN CANCER
; FILE REFERENCE: MRI-039
; CURRENT APPLICATION NUMBER: US/10/176,847
; CURRENT FILING DATE: 2002-06-21
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 86
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-176-847-86

Query Match          35.3%; Score 690; DB 14; Length 343;

```

Best Local Similarity 43.6%; Pred. No. 1.6e-51;  
Matches 156; Conservative 49; Mismatches 129; Indels 24; Gaps 10;

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QY 1 MAOKGVLPQGLGAVANSDSYSIX-GLVSGP---ARGPPYCGRPESARIVGGSNKP 55
DB 1 MAOKGVLPQGLGAVN-----ILTYIGLRSGTGAEGAAP--CG-VAPQARITGGSSAVA 53
QY 56 GTWPMQVSLHHGGGHHICGGSILAPSWILSAHCFMTNCTLEPPAAWWSVLLGVHSODGELD 115
DB 54 GQMPQVQSVITVEGVHVCSSIVSEQWVLSAHCFFSEHKE---AYEYKLGHQIDYSSE 110
QY 116 GAHRAVAAYVVPANYSQVELGADLALRLASPASLGAVWPVCLPRASHRFVHGTACWA 175
DB 111 DAKVSTLKDIIPHSYLOEGSQGDIALQLSRPTFSRYIRPICLPANASFPNGLHCTV 170
QY 176 TGMGDVQADPLPLPWLYQEVLERLTGEATQCCLYSQGPNNLTQLIPGMLCAGYPRGR 235
DB 171 TGMGHVAPSVSLLPKPLQQLLEVPILSRCTNCLYNIDAKPEBPHFVQEDWVCAGYVGG 230
QY 236 RDTQGSQSGPLVCEEGGRWFOAGITSPFGCGRRNRDGVFTAVATYAMTREQVMGSEP 295
DB 231 KDACQGSQSGPLSCPEVGLWYLTGIVSWGDCAGARNRGVYVTLASVSASWIOSKV--TEL 288
QY 296 GAFFPQOKTQSD---CLHOTAFIDS-ARILAPLSHSIVGVTGTSLVLPMTSPH 349
DB 289 QPRVVPQTESQPSNLCGSHLAFSSADPQGLPLPLPLGLAG--LISPMLSEH 343
```

RESULT 8  
US-10-097-340-262  
; Sequence 262, Application US/10097340  
; Publication No. US20030087250a1  
; GENERAL INFORMATION:

APPLICANT: John MONAHAN  
APPLICANT: Manjula GANNANARAPU  
APPLICANT: Sebastian HOERSCHE  
APPLICANT: Shubhangi KAWATKAR  
APPLICANT: Steve G. KOVATIS  
APPLICANT: Rachel E. MEYERS  
APPLICANT: Michael MORRISSEY  
APPLICANT: Peter OLANDT  
APPLICANT: Ami SEN  
APPLICANT: Peter VEIBY  
APPLICANT: Gordon B. MILLS  
APPLICANT: Robert C. BAST, Jr.  
APPLICANT: Karen LU  
APPLICANT: Rosemarie SCHMANDT  
APPLICANT: Xumei ZHAO  
APPLICANT: Karen GLATT  
TITLE OF INVENTION: Nucleic Acid Molecules and Proteins for The Identification,  
FILE REFERENCE: MRI-030  
CURRENT APPLICATION NUMBER: US/10/097,340  
CURRENT FILING DATE: 2002-03-14  
PRIOR APPLICATION NUMBER: 60/276,025  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/325,149  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/276,026  
PRIOR FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 60/324,967  
PRIOR FILING DATE: 2001/09/26  
PRIOR APPLICATION NUMBER: 60/311,732  
PRIOR FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: 60/325,102  
PRIOR FILING DATE: 2001-09-26  
PRIOR APPLICATION NUMBER: 60/323,580  
PRIOR FILING DATE: 2001-09-19  
NUMBER OF SEQ ID NOS: 363  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 262  
LENGTH: 343  
TYPE: PRT

; ORGANISM: Homo sapiens  
US-10-097-340-262

Query Match 35.3%; Score 690; DB 14; Length 343;  
Best Local Similarity 43.6%; Pred. No. 1.6e-51;  
Matches 156; Conservative 49; Mismatches 129; Indels 24; Gaps 10;

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QY 1 MAOKGVLPQGLGAVANSDSYSIX-GLVSGP---ARGPPYCGRPESARIVGGSNKP 55
DB 1 MAOKGVLPQGLGAVN-----ILTYIGLRSGTGAEGAAP--CG-VAPQARITGGSSAVA 53
QY 56 GTWPMQVSLHHGGGHHICGGSILAPSWILSAHCFMTNCTLEPPAAWWSVLLGVHSODGELD 115
DB 54 GQMPQVQSVITVEGVHVCSSIVSEQWVLSAHCFFSEHKE---AYEYKLGHQIDYSSE 110
QY 116 GAHRAVAAYVVPANYSQVELGADLALRLASPASLGAVWPVCLPRASHRFVHGTACWA 175
DB 111 DAKVSTLKDIIPHSYLOEGSQGDIALQLSRPTFSRYIRPICLPANASFPNGLHCTV 170
QY 176 TGMGDVQADPLPLPWLYQEVLERLTGEATQCCLYSQGPNNLTQLIPGMLCAGYPRGR 235
DB 171 TGMGHVAPSVSLLPKPLQQLLEVPILSRCTNCLYNIDAKPEBPHFVQEDWVCAGYVGG 230
QY 236 RDTQGSQSGPLVCEEGGRWFOAGITSPFGCGRRNRDGVFTAVATYAMTREQVMGSEP 295
DB 231 KDACQGSQSGPLSCPEVGLWYLTGIVSWGDCAGARNRGVYVTLASVSASWIOSKV--TEL 288
QY 296 GAFFPQOKTQSD---CLHOTAFIDS-ARILAPLSHSIVGVTGTSLVLPMTSPH 349
DB 289 QPRVVPQTESQPSNLCGSHLAFSSADPQGLPLPLPLGLAG--LISPMLSEH 343
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RESULT 9  
US-10-074-566-125  
; Sequence 125, Application US/10074566  
; Publication No. US20030207348a1  
; GENERAL INFORMATION:

APPLICANT: Shinketsu, Richard A.  
APPLICANT: Fernandes, Elma R.  
APPLICANT: Li, Li  
APPLICANT: Gorman, Linda  
APPLICANT: Gusev, Vladimir Y.  
APPLICANT: Padigara, Muralidhara  
APPLICANT: Paturajan, Meera  
APPLICANT: Shenoy, Suresh G.  
APPLICANT: Spytek, Kimberly A.  
TITLE OF INVENTION: Polypeptides and Polynucleotides Encoding Same  
FILE REFERENCE: 15966-556 CIP1  
CURRENT APPLICATION NUMBER: US/10/074,566  
CURRENT FILING DATE: 2002-02-13  
PRIOR APPLICATION NUMBER: 09/619,252  
PRIOR FILING DATE: 2000-07-19  
PRIOR APPLICATION NUMBER: 60/144,722  
PRIOR FILING DATE: 1999-07-20  
PRIOR APPLICATION NUMBER: 60/167,785  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: 60/276,994  
PRIOR FILING DATE: 2001-03-19  
PRIOR APPLICATION NUMBER: 60/280,898  
PRIOR FILING DATE: 2001-04-02  
PRIOR APPLICATION NUMBER: 60/332,241  
PRIOR FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/288,062  
PRIOR FILING DATE: 2001-05-02  
PRIOR APPLICATION NUMBER: 60/291,766  
PRIOR FILING DATE: 2001-05-17  
PRIOR APPLICATION NUMBER: 60/314,007  
PRIOR FILING DATE: 2001-08-21  
NUMBER OF SEQ ID NOS: 132  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 125  
LENGTH: 343  
TYPE: PRT

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; ORGANISM: human
US-10-074-566-125

Query Match      35.3%; Score 690; DB 15; Length 343;
Best Local Similarity 43.6%; Pred. No. 1.6e-51;
Matches 156; Conservative 49; Mismatches 129; Indels 24; Gaps 10;

QY 1 MAQKGYLGPGQIGAVANSYSYLY-GLVPSGP---ARGPYCGRPSPARIVGSSNAQP 55
DB 1 MAQKGYLGPGQIGAVANSYSYLY-GLVPSGP---ARGPYCGRPSPARIVGSSNAQP 53

QY 56 GTWPMQVSLHGGGHIICGSSLIAPSWVLSAHCFTMNGTLEPAEWSVLLGVHSQDGPLD 115
DB 54 GQWPMQVSLTYGSAVHVCSSIVSEQVWLSAHCFTPEHHEK---AVEVLLGHHQDLSYSE 110

QY 116 GAHTRAVAALIVPANTSOVELGADLALLRLASPASIGPAPVPCLPASHRFVHTACWA 175
DB 111 DAKVSTLKDIIPHPSTLQSGSDIALDLSPRTSPRYRIPCPLAANAASFNGHACTV 170

QY 176 TGMGVQADPLPLPWVLTQEVRLRLGKATCCQCLYSQDPFNLTQLPLPMLCAGYPEG 235
DB 171 TGMGVAVBSVSLTTPKPLQQLKPLSRCTCNLYIDAKPEEPHFVQEDMVCAGYVEGG 230

QY 236 RDTCCGDSGGLVCEBEGMFOAGITSRFGCGRRNRPGVFTAVATYAMIREQWGSBP 295
DB 231 KMACGDSGGLSCPVGELMYLTVGIWSWDACGARRRPGVYTLASYSASWIOSKV--TEL 288

QY 296 GFAFPPOKTOSD---CLHQTAFLDS-ARILRLPSHSVSVSTGTSKSLVLPWLSPH 349
DB 289 QPRVVPQTOESQPDNSMLCGSHLAFSSAPAQGLRLPLPLGLALG---LISPWLSSEH 343

RESULT 10
US-10-311-591A-3
; Sequence 3, Application US/10311591A
; Publication No. US20040141962A1
; GENERAL INFORMATION:
; APPLICANT: Xlao, Yonghong
; TITLE OF INVENTION: Regulation of Human Prostatein-Like
; FILE REFERENCE: 004974.00929
; CURRENT APPLICATION NUMBER: US/10/311, 591A
; PRIOR FILING DATE: 2003-03-24
; PRIOR APPLICATION NUMBER: US 60/213,474
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/277,612
; PRIOR FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 343
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-311-591A-3

Query Match      35.3%; Score 690; DB 16; Length 343;
Best Local Similarity 43.6%; Pred. No. 1.6e-51;
Matches 156; Conservative 49; Mismatches 129; Indels 24; Gaps 10;

QY 1 MAQKGYLGPGQIGAVANSYSYLY-GLVPSGP---ARGPYCGRPSPARIVGSSNAQP 55
DB 1 MAQKGYLGPGQIGAVANSYSYLY-GLVPSGP---ARGPYCGRPSPARIVGSSNAQP 53

QY 56 GTWPMQVSLHGGGHIICGSSLIAPSWVLSAHCFTMNGTLEPAEWSVLLGVHSQDGPLD 115
DB 54 GQWPMQVSLTYGSAVHVCSSIVSEQVWLSAHCFTPEHHEK---AVEVLLGHHQDLSYSE 110

QY 116 GAHTRAVAALIVPANTSOVELGADLALLRLASPASIGPAPVPCLPASHRFVHTACWA 175
DB 111 DAKVSTLKDIIPHPSTLQSGSDIALDLSPRTSPRYRIPCPLAANAASFNGHACTV 170

QY 176 TGMGVQADPLPLPWVLTQEVRLRLGKATCCQCLYSQDPFNLTQLPLPMLCAGYPEG 235
DB 171 TGMGVAVBSVSLTTPKPLQQLKPLSRCTCNLYIDAKPEEPHFVQEDMVCAGYVEGG 230

QY 236 RDTCCGDSGGLVCEBEGMFOAGITSRFGCGRRNRPGVFTAVATYAMIREQWGSBP 295
DB 231 KMACGDSGGLSCPVGELMYLTVGIWSWDACGARRRPGVYTLASYSASWIOSKV--TEL 288

QY 296 GFAFPPOKTOSD---CLHQTAFLDS-ARILRLPSHSVSVSTGTSKSLVLPWLSPH 349
DB 289 QPRVVPQTOESQPDNSMLCGSHLAFSSAPAQGLRLPLPLGLALG---LISPWLSSEH 343
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```

DB 171 TGMGVAVBSVSLTTPKPLQQLKPLSRCTCNLYIDAKPEEPHFVQEDMVCAGYVEGG 230
QY 236 RDTCCGDSGGLVCEBEGMFOAGITSRFGCGRRNRPGVFTAVATYAMIREQWGSBP 295
DB 231 KMACGDSGGLSCPVGELMYLTVGIWSWDACGARRRPGVYTLASYSASWIOSKV--TEL 288

QY 296 GFAFPPOKTOSD---CLHQTAFLDS-ARILRLPSHSVSVSTGTSKSLVLPWLSPH 349
DB 289 QPRVVPQTOESQPDNSMLCGSHLAFSSAPAQGLRLPLPLGLALG---LISPWLSSEH 343

RESULT 11
US-10-042-865-30
; Sequence 30, Application US/10042865
; Publication No. US20040029216A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Murajidhara
; APPLICANT: Li, Li
; APPLICANT: Zernusen, Bryan D
; APPLICANT: Casman, Stacie J
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zhong, Mei
; APPLICANT: Gangolli, Esha A
; APPLICANT: Burgess, Catherine E
; APPLICANT: Patuturajan, Meera
; APPLICANT: Vernet, Corine A.M
; APPLICANT: Taylor, Sarah
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Miller, Charles E
; APPLICANT: Guo, Xiaojia
; APPLICANT: Boldog, Ference L
; APPLICANT: Grosse, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Gerlach, Valerie L
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Rothenberg, Mark E
; APPLICANT: Ellerman, Karen
; APPLICANT: MacDougall, John
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Millet, Isabelle
; APPLICANT: Feyman, John
; APPLICANT: Smithson, Glenda
; APPLICANT: Gunther, Erik
; APPLICANT: Stone, David
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-537
; CURRENT APPLICATION NUMBER: US/10/042,865
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: 60/260,417
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: 60/260,831
; PRIOR FILING DATE: 2001-01-10
; PRIOR APPLICATION NUMBER: 60/272,338
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/274,876
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: 60/284,704
; PRIOR FILING DATE: 2001-04-18
; NUMBER OF SEQ ID NOS: 264
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 30
; LENGTH: 307
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-042-865-30

Query Match      33.0%; Score 645; DB 12; Length 307;
Best Local Similarity 41.3%; Pred. No. 1.1e-47;
Matches 148; Conservative 45; Mismatches 105; Indels 60; Gaps 11;

QY 1 MAQKGYLGPGQIGAVANSYSYLY-GLVPSGP---ARGPYCGRPSPARIVGSSNAQP 55
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Db 1 MAQKVLBPQGVGA---ILLYIGLRSGTGAEGAP--CG-VAPQARITGGSSAVA 53
QY GTWPMQVSLHHGGGHHICGSLIAPSVLTAACFEMTNGTLEPAEWSTVLGVHSQDGLD 115
Db 54 GQMFQVSVITTEGTVHVCSSGLVSEQWVLSAHCF-----87
QY 116 GAHTRAVAIVPANTSGVELGADLALRLASPAISGPAWVPVCLPRASHRFVHTACMA 175
Db 88 -----PSHHKSGQ-DIALQLSRPYSYKIRPICLPANASFPNGHCTV 134
QY 176 TGMGVQADPLPLPWLIOEVLRLGATCCCLYSQCPFNLTILQILPMLCAGYPRGR 235
Db 135 TGMGVAPSVSLTPKPLQOLEVPLISRETCLCLYNIDAKPEBPHVQEDMVCAGYVGG 194
QY 236 RDTCCGDSGGLPVCBEGGRWFQAGITSPFGGRRNRPVFTAVATYAMTREQMSEEP 295
Db 195 KDAQCGDSGDPUSCVBGLMYTLGVSWGDACGARNRPGVYTLASSTASVTSQSKV--TEL 252
QY 296 GPAPPTPOKTOSD---CLHQTAFLDS-ARILRLPSHSVGSVGTGKSLVPLMLSPH 349
Db 253 QPRVVPQTOESQPSNLCSHLSAFSAPAGLRLPLPLGLALG---LISPLMSEH 307

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## RESULT 12

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US-10-042-865-154
; Sequence 154, Application US/10042865
; Publication No. US20040029216A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Li, Li
; APPLICANT: Zexhusen, Bryan D
; APPLICANT: Casman, Stacie J
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zhong, Mei
; APPLICANT: Gangolli, Esha A
; APPLICANT: Burgess, Catherine E
; APPLICANT: Patturajan, Meera
; APPLICANT: Vernet, Corine A.M
; APPLICANT: Taylor, Sarah
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Miller, Charles E
; APPLICANT: Guo, Xiaojia
; APPLICANT: Boldog, Ference L
; APPLICANT: Grosse, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Gerlach, Valerie L
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Rothenberg, Mark E
; APPLICANT: Ellerman, Karen
; APPLICANT: MacDougall, John
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Miller, Isabelle
; APPLICANT: Peyman, John
; APPLICANT: Smithson, Glennnda
; APPLICANT: Gunther, Erik
; APPLICANT: Stone, David
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE OF INVENTION: Using the Same
; FILE REFERENCE: 21402-537
; CURRENT APPLICATION NUMBER: US/10/042,865
; PRIOR APPLICATION NUMBER: 60/260,417
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: 60/260,831
; PRIOR FILING DATE: 2001-01-10
; PRIOR APPLICATION NUMBER: 60/272,338
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/274,876
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: 60/284,704
; PRIOR FILING DATE: 2001-04-18

```

```

; NUMBER OF SEQ ID NOS: 264
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 154
; LENGTH: 342
; TYPE: PRO
; ORGANISM: Mus musculus
US-10-042-865-154

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Query Match 32.3%; Score 631; DB 12; Length 342;
Best Local Similarity 41.4%; Pred. No. 2.1e-46;
Matches 146; Conservative 48; Mismatches 139; Indels 20; Gaps 10;

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QY 1 MAQKVLBPQGVGAVANSYSYLVGPSG-PARG-PPYCGRP-EPASARIYGGSSAPQGT 57
Db 1 MABRVGLGGLAVT---ILLIGLQSGIRADGTASCAVQF--RIYGGSAKRGQ 55
QY 58 WPMQVSLHHGGGHHICGSLIAPSVLTAACFEMTNGTLEPAEWSTVLGVHSQDGLDGA 117
Db 56 WPMQVSLTYDGNHVCSSGLVSNKQVSAACFPRHSRE--AYEVKGAHQLDYSNDT 112
QY 118 HTRAVAIVPANTSGVELGADLALRLASPAISGPAWVPVCLPRASHRFVHTACMANG 177
Db 113 VHTVQAQIITHSSYRBSGQDLIFRLSSPVTSRYTRPCLPANASFPNGHCTVGT 172
QY 178 WGVQADPLPLPWLIOEVLRLGATCCCLYSQCPFNLTILQILPMLCAGYPRGRD 237
Db 173 WGVAPSVSLQTPRPLQOLEVPLISRETCSCLYNINAVPEBPHVQEDMVCAGYVKGKD 232
QY 238 TCGDSDSGGLPVCBEGGRWFQAGITSPFGGRRNRPVFTAVATYAMTREQMSEEP 297
Db 233 ACQDSDSGGLPUSCVBGLMYTLGVSWGDACGARNRPGVYTLASSTASVTSQSKV--TEL 290
QY 298 AFPPTPOKTOSD---CLHQTAFLDS-ARILRLPSHSVGSVGTGKSLVPLMLSPH 346
Db 291 RVDPQTOESQPSNLCSHLSAFSAPAGLRLPLPLGLALG---LISPLMSEH 307

```

## RESULT 13

```

US-10-042-865-153
; Sequence 153, Application US/10042865
; Publication No. US20040029216A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Li, Li
; APPLICANT: Zexhusen, Bryan D
; APPLICANT: Casman, Stacie J
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zhong, Mei
; APPLICANT: Gangolli, Esha A
; APPLICANT: Burgess, Catherine E
; APPLICANT: Patturajan, Meera
; APPLICANT: Vernet, Corine A.M
; APPLICANT: Taylor, Sarah
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Miller, Charles E
; APPLICANT: Guo, Xiaojia
; APPLICANT: Boldog, Ference L
; APPLICANT: Grosse, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Gerlach, Valerie L
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Rothenberg, Mark E
; APPLICANT: Ellerman, Karen
; APPLICANT: MacDougall, John
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Miller, Isabelle
; APPLICANT: Peyman, John
; APPLICANT: Smithson, Glennnda
; APPLICANT: Gunther, Erik
; APPLICANT: Stone, David
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE OF INVENTION: Using the Same

```

FILE REFERENCE: 21402-537  
CURRENT APPLICATION NUMBER: US/10/042,865  
CURRENT FILING DATE: 2002-05-17  
PRIOR APPLICATION NUMBER: 60/260,417  
PRIOR FILING DATE: 2001-01-09  
PRIOR APPLICATION NUMBER: 60/260,831  
PRIOR FILING DATE: 2001-01-10  
PRIOR APPLICATION NUMBER: 60/272,338  
PRIOR FILING DATE: 2001-02-28  
PRIOR APPLICATION NUMBER: 60/274,876  
PRIOR FILING DATE: 2001-03-09  
PRIOR APPLICATION NUMBER: 60/284,704  
PRIOR FILING DATE: 2001-04-18  
NUMBER OF SEQ ID NOS: 264  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 153  
LENGTH: 339  
TYPE: PRT  
ORGANISM: Mus musculus  
US-10-042-865-153

Query Match 32.3%; Score 630.5; DB 12; Length 339;  
Best Local Similarity 41.7%; Pred. No. 2.3e-46;  
Matches 145; Conservative 48; Mismatches 138; Indels 17; Gaps 9;

QY 1 MAOKGVLPQGLGAVANSYSYGLVPSG-PARG-PFYCGRP-EPSARIYGSNAOPGT 57  
DB 1 MALRVGLGQLEAVT---ILLILGLQSGIRADGEGASGAVIQP--RITGGGSKPQ 55  
QY 58 WPMQVSIHHGGHICGSLIAPSWVLSAACHFMNTGTEPAEWSVTLGVHSDGPELDA 117  
DB 56 WPMQVSIYDGNHVCGLSVSKMWSAACHCPREHSRE--AYEVLGAHQDYSNJT 112  
QY 118 HTRAVALVVPANYSQVELGADIALRLASPASLGPVAVPCLPRAHPRVHGTAQWATG 177  
DB 113 VHTVAQIITHSSYREBSQGDIAFLRLSSPVTFSRYIRPICLPANASFPNGLHCTVIG 172  
QY 178 WGVQVADPLPLPWLQVEYELRLGATQCCYSGQPPNLTQLIPGLCAGYPERGD 237  
DB 173 WGVVAPSVSLQTPRPLQQLVPLISRETSCLYNINAVBEHPHTIQODMLCAGYVGGKD 232  
QY 238 TCQDGGGGLVCEEGGRWFOAGITSPFGCGRRNRPGVTAATYEAATREQVMGSEPPG 297  
DB 233 ACQDGGGGLVCEEGGRWFOAGITSPFGCGRRNRPGVTAATYEAATREQVMGSEPPG 297  
QY 233 ACQDGGGGLVCEEGGRWFOAGITSPFGCGRRNRPGVTAATYEAATREQVMGSEPPG 297  
DB 233 ACQDGGGGLVCEEGGRWFOAGITSPFGCGRRNRPGVTAATYEAATREQVMGSEPPG 297  
QY 298 APPTQPKTQSD---CLHQTAFIDGAR-ILRLPLSHISVSGVSTGKSL 341  
DB 291 RVVPQTESQPDGHLGNHHPVFSSAAPKILRPVLFPLGLTGLTLSTL 338

RESULT 14  
US-10-109-616-2  
Sequence 2, Application US/10109616  
Publication No. US20030167484A1  
GENERAL INFORMATION:  
APPLICANT: Allen, Keith D.  
TITLE OF INVENTION: TRANSGENIC MICE CONTAINING CHANNEL  
FILE REFERENCE: R-490  
CURRENT APPLICATION NUMBER: US/10/109,616  
CURRENT FILING DATE: 2002-03-28  
PRIOR APPLICATION NUMBER: US 60/280,509  
PRIOR FILING DATE: 2001-03-29  
PRIOR APPLICATION NUMBER: US 60/311,055  
PRIOR FILING DATE: 2001-08-08  
NUMBER OF SEQ ID NOS: 4  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2  
LENGTH: 339  
TYPE: PRT  
ORGANISM: Mus musculus  
US-10-109-616-2

Query Match 32.1%; Score 627.5; DB 14; Length 339;  
Best Local Similarity 41.4%; Pred. No. 4.1e-46;  
Matches 144; Conservative 48; Mismatches 139; Indels 17; Gaps 9;

QY 1 MAOKGVLPQGLGAVANSYSYGLVPSG-PARG-PFYCGRP-EPSARIYGSNAOPGT 57  
DB 1 MALRVGLGQLEAVT---ILLILGLQSGIRADGEGASGAVIQP--RITGGGSKPQ 55  
QY 58 WPMQVSIHHGGHICGSLIAPSWVLSAACHFMNTGTEPAEWSVTLGVHSDGPELDA 117  
DB 56 WPMQVSIYDGNHVCGLSVSKMWSAACHCPREHSRE--AYEVLGAHQDYSNJT 112  
QY 118 HTRAVALVVPANYSQVELGADIALRLASPASLGPVAVPCLPRAHPRVHGTAQWATG 177  
DB 113 VHTVAQIITHSSYREBSQGDIAFLRLSSPVTFSRYIRPICLPANASFPNGLHCTVIG 172  
QY 178 WGVQVADPLPLPWLQVEYELRLGATQCCYSGQPPNLTQLIPGLCAGYPERGD 237  
DB 173 WGVVAPSVSLQTPRPLQQLVPLISRETSCLYNINAVBEHPHTIQODMLCAGYVGGKD 232  
QY 238 TCQDGGGGLVCEEGGRWFOAGITSPFGCGRRNRPGVTAATYEAATREQVMGSEPPG 297  
DB 233 ACQDGGGGLVCEEGGRWFOAGITSPFGCGRRNRPGVTAATYEAATREQVMGSEPPG 297  
QY 233 ACQDGGGGLVCEEGGRWFOAGITSPFGCGRRNRPGVTAATYEAATREQVMGSEPPG 297  
DB 233 ACQDGGGGLVCEEGGRWFOAGITSPFGCGRRNRPGVTAATYEAATREQVMGSEPPG 297  
QY 298 APPTQPKTQSD---CLHQTAFIDGAR-ILRLPLSHISVSGVSTGKSL 341  
DB 291 RVVPQTESQPDGHLGNHHPVFSSAAPKILRPVLFPLGLTGLTLSTL 338

RESULT 15  
US-10-042-865-151  
Sequence 151, Application US/10042865  
Publication No. US20040029216A1  
GENERAL INFORMATION:

APPLICANT: Padigaru, Marudithara  
APPLICANT: Li, Li  
APPLICANT: Zernusen, Bryan D  
APPLICANT: Casman, Stacie J  
APPLICANT: Shenoy, Suresh G  
APPLICANT: Spylek, Kimberly  
APPLICANT: Zhong, Mei  
APPLICANT: Gangolli, Esha A  
APPLICANT: Burgess, Catherine E  
APPLICANT: Patuturajan, Meera  
APPLICANT: Vernet, Corine A.M  
APPLICANT: Taylor, Sarah  
APPLICANT: Tchennev, Vellizar T  
APPLICANT: Miller, Charles E  
APPLICANT: Guo, Xiaojia  
APPLICANT: Boldog, Ference L  
APPLICANT: Grose, William M  
APPLICANT: Alsobrook II, John P  
APPLICANT: Gerlach, Valerie L  
APPLICANT: Edinger, Shomik R  
APPLICANT: Rottenberg, Mark E  
APPLICANT: Ellerman, Karen  
APPLICANT: MacDougall, John  
APPLICANT: Malyankar, Uriel M  
APPLICANT: Millet, Isabelle  
APPLICANT: Feyman, John  
APPLICANT: Smithson, Glenda  
APPLICANT: Guntner, Erik  
APPLICANT: Stone, David  
TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of  
FILE REFERENCE: 21402-537  
CURRENT APPLICATION NUMBER: US/10/042,865  
CURRENT FILING DATE: 2002-05-17  
PRIOR APPLICATION NUMBER: 60/260,417  
PRIOR FILING DATE: 2001-01-09  
PRIOR APPLICATION NUMBER: 60/260,831  
PRIOR FILING DATE: 2001-01-10  
PRIOR APPLICATION NUMBER: 60/272,338

```

? PRIOR FILING DATE: 2001-02-02-28
? PRIOR APPLICATION NUMBER: 60/2274, 876
? PRIOR FILING DATE: 2001-03-09
? PRIOR APPLICATION NUMBER: 60/284, 704
? PRIOR FILING DATE: 2001-04-18
? NUMBER OF SEQ ID NOS: 264
? SOFTWARE: PatentIn Ver. 2.1
? SEQ ID NO 151
? LENGTH: 342
? TYPE: prt
? ORGANISM: Rattus norvegicus
US-10-042-865-151

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Query Match	31.8%;	Score 621;	DB 12;	length 342;
Best Local Similarity	40.8%;	Pred. No. 1.5e-45;		
Matches 144;	Conservative 50;	Mismatches 139;	Indels 20;	Gaps 92;

QY 1 MAQKGVLPFQQLAAVANSDSYSYLGVNFS--GPAGAPPCGAP--BPSARIYGSNAPQGT 57  
D 1 MAIRVGLGIGQLFALF---VLLIIGLGRIGADGTAKSCGAVIQP--RIIGGSSARFQ 55  
QY 58 WPMQVSLHHGGGHI CCGSLIADSPWYLSAAHCMTNIGTLAPAAENVSLGYHSQDPLDGA 117  
D 56 WPMQVSLITNGVHVCSSLSVSNQWVWVAASHCPREHSKR---EYEVKLGALQDLDSFNDI 112  
QY 118 HTAAVAIVAEPAVANSVGEVLGADLTALLRLTASPSLTPAAWVPCSLPRAISRFFVHGTACWATG 177  
D 113 VHTVAIQTIIHSSVREYSGQGDIDILIRSSPTFSRYIRPCLPRAANSPFNGLHCVTG 172  
QY 178 WGVVQEADEPLPLPWLQVEVFLALLEGATQCCIXSQPGEFNITLQILPEMLCAVPIBGRD 237  
D 173 WGVVAHSVSLQETRPIDQOLEVPLISRETSCSLYNINVAPEEHNTIQDMLCAGVYKGD 232  
QY 238 TCOGDSGGPLVCEEGGRWFOAGITSGFGFCGRNRNPGVFATVATYEAMIRQWVGSSEPG 297  
D 233 ACQGDGSGPLSCPTIDGLWYLAGIVSGDACGAPNRPVYTTLTSTYASMTIHNV--AEIQ 290  
QY 298 APLQVQKQKQSD---CLHQTAFLDSARILLRPLSHISVGYSTGYKSLVLPWL 346  
D 291 RVLPQVQESQPDGHLCNHHPFENLLAAQQLSPSILFLPLSLTIGFSL---WL 340

Search completed: July 30, 2004, 08:50:52Z  
Job time : 48 secs

Blank Sheet



GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - nucleic search, using frame\_plus.p2n model

Run on: August 4, 2004, 12:26:22 ; Search time 73 Seconds

(without alignments)  
2713.938 Million cell updates/sec

Title: US-10-037-417-46

Perfect score: 1953

Sequence: 1 MAQKGVLPQGLGVANSDS.....TKSLVLPWLSPHSLGLMGF 357

Scoring table:

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Xgapop 10.0 , Xgapext 0.5  
Xgapop 10.0 , Xgapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-LOOEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blom62 -TRANS=human40.cdi  
-LIST=45 -DOCALLIGN=200 -THR SCORE=PCT -THR MAX=100 -THR MIN=0 -ALIGN=15  
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000  
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-DEV\_TIMEOUT=120 -MAXN\_TIMEOUT=30 -THRAIDS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued Patents NA:  
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2: /cgn2\_6/ptodata/2/ina/5B.COMB.seq:\*  
3: /cgn2\_6/ptodata/2/ina/6A.COMB.seq:\*  
4: /cgn2\_6/ptodata/2/ina/6B.COMB.seq:\*  
5: /cgn2\_6/ptodata/2/ina/PTUS.COMB.seq:\*  
6: /cgn2\_6/ptodata/2/ina/backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	603.5	30.9	1613	4	US-09-387-375-1 Sequence 1, Appli
2	564.5	28.9	1142	4	US-09-386-642-8 Sequence 8, Appli
3	563.5	28.9	1110	4	US-09-386-653A-1 Sequence 1, Appli
4	562.5	28.8	1212	4	US-09-620-312D-431 Sequence 431, App
5	561.5	28.8	980	4	US-09-023-942A-30 Sequence 30, Appli
6	557	28.5	1130	4	US-09-387-375-8 Sequence 8, Appli
7	550	28.2	1169	4	US-09-386-642-7 Sequence 7, Appli
8	549	28.1	3147	2	US-09-027-337-1 Sequence 1, Appli
9	549	28.1	3147	4	US-09-644-600-1 Sequence 1, Appli
10	549	28.1	3147	4	US-09-644-600-18 Sequence 18, Appli
11	549	28.1	3147	4	US-09-654-600A-1 Sequence 1, Appli
12	549	28.1	3147	4	US-09-654-600A-18 Sequence 18, Appli

13	545	27.9	1378	4	US-09-907-794A-262 Sequence 262, App
14	545	27.9	1378	4	US-09-905-125A-262 Sequence 262, App
15	545	27.9	1378	4	US-09-902-775A-262 Sequence 262, App
16	544	27.9	1430	4	US-09-386-629-1 Sequence 1, Appli
17	538.5	27.6	1081	3	US-09-008-271A-15 Sequence 15, Appli
18	538.5	27.6	1100	4	US-09-907-794A-256 Sequence 256, App
19	538.5	27.6	1100	4	US-09-905-125A-256 Sequence 256, App
20	538.5	27.6	1100	4	US-09-902-775A-256 Sequence 256, App
21	537.5	27.5	1100	4	US-09-023-942A-5 Sequence 5, App
22	532	27.2	2152	4	US-09-023-655-157 Sequence 157, App
23	531	27.2	1130	4	US-09-386-653A-8 Sequence 8, Appli
24	530.5	27.2	1094	4	US-09-023-942A-3 Sequence 3, Appli
25	529	27.1	959	4	US-09-023-942A-25 Sequence 25, Appli
26	514	26.3	933	4	US-09-023-942A-29 Sequence 29, Appli
27	513	26.3	1108	2	US-09-016-366A-14 Sequence 14, Appli
28	513	26.3	1108	2	US-08-978-404B-20 Sequence 20, Appli
29	509	26.1	1165	4	US-09-023-942A-28 Sequence 28, Appli
30	507	26.0	1553	4	US-09-280-116-10 Sequence 10, Appli
31	502	25.7	1166	4	US-09-386-629-2 Sequence 2, Appli
32	501	25.7	1103	4	US-09-386-642-59 Sequence 59, Appli
33	497.5	25.5	1605	2	US-09-000-846-1 Sequence 1, Appli
34	497	25.4	1097	2	US-08-978-404B-4 Sequence 4, Appli
35	496.5	25.4	1103	2	US-09-016-366A-24 Sequence 24, Appli
36	495	25.3	2900	2	US-09-027-337-9 Sequence 9, Appli
37	495	25.3	2900	4	US-09-644-600-9 Sequence 9, Appli
38	495	25.3	2900	4	US-09-654-600A-9 Sequence 9, Appli
39	494.5	25.3	1128	2	US-09-016-366A-20 Sequence 20, Appli
40	494.5	25.3	1128	2	US-08-978-404B-15 Sequence 15, Appli
41	494.5	25.3	1137	2	US-09-016-366A-18 Sequence 18, Appli
42	494.5	25.3	1137	2	US-08-978-404B-13 Sequence 13, Appli
43	493.5	25.3	1081	2	US-09-016-366A-22 Sequence 22, Appli
44	493.5	25.3	1081	2	US-08-978-404B-17 Sequence 17, Appli
45	492.5	25.2	1615	4	US-09-820-002-1 Sequence 1, Appli

#### ALIGNMENTS

RESULT 1  
US-09-387-375-1  
Sequence 1, Application US/09387375  
Patent No. 6485957

GENERAL INFORMATION:  
APPLICANT: Darrow, Andrew  
APPLICANT: Andrade-Gordon, Patricia  
APPLICANT: Qi, Jenson  
TITLE OF INVENTION: DNA Encoding the Human Serine  
TITLE OF INVENTION: Protease EOS  
FILE REFERENCE: ORT-1031  
CURRENT APPLICATION NUMBER: US/09/387,375  
CURRENT FILING DATE: 1999-08-31  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1  
LENGTH: 1613  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-387-375-1

#### Alignment Scores:

Pred. No.: 1.7e-40  
Score: 603.50  
Percent Similarity: 50.00%  
Best Local Similarity: 39.27%  
Query Match: 30.90%  
Length: 1613  
Matches: 139  
Conservative: 38  
Mismatch: 129  
Indels: 48  
Gaps: 7

US-10-037-417-46 (1-357) x US-09-387-375-1 (1-1613)

QY CysGLYArgProGluProSerAlaArgIleValGlyGlySerAsnAlaGlnProGlyThr 57  
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||  
Db 150 TGGGGGAGAGCCCGGAGATGTCAGTCGATGCTTGGGGCCGCGAGTGGCGGAGAG 209  
|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||  
QY 58 TrpProTrpGlnValSerLeuHisHisGlyGlyGlyHisIleCysGlyGlySerLeuIle 77



Db 653 TTGTCCAGAGGACATGCTGTCTGCTATGTGAGGAGGCGCAAGACGCTCCAGG 712  
Qy 241 TAApSerGlyGlyProLeuValCysGluGluGlyValArgTyrPheGlnAlaGlyIleT 261  
Db 713 GTGACTCTGGGGGCCACCTCTCTGCTGAGAGGCTCTGTGATACCGAGGGCATTG 772  
Qy 261 hrSerPheGlyPheGlyCysGlyValArgAsnArgProGlyValPheThrAlaValAlaT 281  
Db 773 TGAGCTGGGAGATGCTGTGGGCGCCGACAGAGCGCTGTGTACTCTGGGCTTCA 832  
Qy 281 hrTyrGluAlaTyrPheArgGluGlnValMetGlySerGluProGlyProAlaPheProT 301  
Db 833 GGTATGCTCTCGTGTGATCCAGCAAGTG-----ACAGAACTCCAGCTCTGTGTGTC 886  
Qy 301 hrGlnProGlnTyrThrGlnSerAsp-----CysLeuHisGlnThrAlaPhe 316  
Db 887 CCCAAACCCAGGAGTCCAGCCGACAGCAACCTCTGTGTGAGGACCTGGCTTTC 942

## RESULT 3

US-09-386-653A-1  
; Sequence 1, Application US/09386653A  
; Patent No. 6458564  
; GENERAL INFORMATION:  
; APPLICANT: Andrade-Gordon, Patricia  
; APPLICANT: Darrow, Andrew  
; APPLICANT: Qi, Jian-shen  
; TITLE OF INVENTION: DNA encoding the novel human serine  
; FILE OF INVENTION: please T  
; FILE REFERENCE: ORT-1032  
; CURRENT APPLICATION NUMBER: US/09/386,653A  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 1110  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-386-653A-1

## Alignment Scores:

Pred. No.:	1,97e-37	Length:	1110
Score:	563.50	Matches:	128
Percent Similarity:	51.28%	Conservative:	32
Best Local Similarity:	41.03%	Mismatches:	121
Query Match:	28.85%	Indels:	32
	4	Gaps:	9

US-10-037-417-46 (1-357) x US-09-386-653A-1 (1-1110)

Qy 32 AAlaArgGlyProProTyrCysGlyValArgProGluProSerAlaAlaGlyIleValGlySer 51  
Db 93 GCCAAGGCGAGCAACAGCTGTGTGTGCCCCAGATGCTGAACCGAATGTGGGCGGAG 152  
Qy 52 AsnAlaGlnProGlyThrTyrProTyrGlnValSerLeuHisGlyGlyHisIle 71  
Db 153 GACACGCGAGGAGGGGAGTGGCCCTGGGAAATGACATCCAGCCGCAAGCGACACTTC 212  
Qy 72 CysGlyGlySerLeuIleAlaProSerTyrValLeuSerAlaAlaHisCysPheMetThr 91  
Db 213 TGGGGGGGCGAGCCATCGCGAGACAGTGGTCTGTACGGCTGTGGCACTGCTTC----- 266  
Qy 92 AsnGlyThrLeuGluProAlaAlaGluTyrSerValLeuGluGlyValHisSerGlnAsp 111  
Db 267 CGCAACACCTCTGAGACGCTCCCTG---TACCAGGTCTCTGGGGGCGCAAGCGACACTAGT 323  
Qy 112 GLyProLeuAspGlyAlaHisThrArgAlaValAlaAlaIleValAlaProAlaAsn--- 130  
Db 324 CAGCTG-----GGAACCAACGCTATGTATGCCCCGGGTGAGCGAGGTGAGAGCAACCCC 377  
Qy 131 ---TyrSerGlnValGluLeuGlyAlaAspLeuAlaLeuLeuAspGlyLeuAlaSerProAla 149  
Db 378 CTGATCCAGGGCGACGGCTCCAGGGCTGACCTGTGGCTGTGGAGCTGGAGGCCACAGT 437

Qy 150 SerLeuGlyProAlaValTyrProValCysLeuProAlaGlnAlaSerHisArgPheValHis 169  
Db 438 CCCTTACCAATATCATCTCCCGCGTGTGCTGCTGACCCCTCGGTATCTTTGAGAG 497  
Qy 170 GLyThrAlaCysTyrPheThrGlyTyrGlyAspValGlnGluAlaAspProLeuProLeu 189  
Db 498 GGCATGAACCTGTGGTCACTGGCTGGGCGAGCCCCCACTGAGGAGAGACCTCTGCCGAA 557  
Qy 190 ProTyrValLeuGlnGluValGluLeuArgLeuGluGlyValAlaThrCysGlnCysLeu 209  
Db 558 CCGCGGATCTCTGCAAACTCGCTGTGCTGCTGATCATGACACACCAAGTGCACCTGCTC 617  
Qy 210 TyrSerGlnProGlyProPheAsnLeuThrLeuGlnIleLeuProGly---MetLeuCys 228  
Db 618 TACAGCAAGACACCGAGTGTGGCTACCAACCCCAAAACATCAAGATGACATGCTGTGC 677  
Qy 229 AlaGlyTyrProGluGlyValArgAspThrCysGlnGlyAspSerGlyValProLeuVal 248  
Db 678 GCGGCTTCAAGAGGCGCAAGAGATGCTGCAAGGCGACTGCGGCGGCCCCCTGTGTG 737  
Qy 249 CysGluGluGlyValArgTyrPheGlnAlaGlyIleThrSerPheGlyPheGlyCysGly 268  
Db 738 TGCTCTCGGCTCACTGTGTGCTGAGCGGGGGGTGATCACTGGGGGTGAGGCTGTGCC 797  
Qy 269 ArgArgAsnArgProGlyValPheThrAlaValAlaThrTyrGluAlaTyrPheArgGlu 288  
Db 798 CGCCAGAACCGCCAGAGTGTCTACATCCGTGTCAAGCCGACCAACATGATCATCGG 857  
Qy 289 -----GlnValMetGlySerIle-----Pro 295  
Db 858 ATCATCCCAACTGCAAGTTCCA-GCCAGCAGGTGGGCGGCGCAAGAGTACACCCCTG 916  
Qy 296 GLyProAlaPhePro-----ThrGlnProGlnTyrThrGlnSerAspCys 310  
Db 917 GGGCCAGAGAGCCCTTGTAGCAGAGCTGTGACCCAGCTGTGCTGCTGCTGCTGCTGCT 964  
Qy 311 LeuHisGlnThrAlaPheLeuAspSerAlaArgIle 322  
Db 965 ---CACCATCTGCTGTGCTGCTGCCAGCGCTGCTGT 997

## RESULT 4

US-09-620-312D-431  
; Sequence 431, Application US/09620312D  
; Patent No. 6569662  
; GENERAL INFORMATION:  
; APPLICANT: Tang, Y. Tom  
; APPLICANT: Liu, Chenghua  
; APPLICANT: Asundi, Vinod  
; APPLICANT: Zhang, Jie  
; APPLICANT: Ren, Feiyan  
; APPLICANT: Chen, Rui-hong  
; APPLICANT: Zhao, Qing A.  
; APPLICANT: Wehrman, Tom  
; APPLICANT: Xue, Aidong J.  
; APPLICANT: Yang, Yonghong  
; APPLICANT: Wang, Jian-Rui  
; APPLICANT: Zhou, Ping  
; APPLICANT: Ma, Yundong  
; APPLICANT: Wang, Dunhui  
; APPLICANT: Wang, Zhiwei  
; APPLICANT: John Tillinghast  
; APPLICANT: Drmanac, Radoje T.  
; TITLE OF INVENTION: No. 6569662el Nucleic Acids and  
; FILE REFERENCE: Polypeptides  
; FILE REFERENCE: 784CTP28  
; CURRENT APPLICATION NUMBER: US/09/620,312D  
; CURRENT FILING DATE: 2000-07-19  
; PRIOR APPLICATION NUMBER: 09/552,317  
; PRIOR FILING DATE: 2000-04-25  
; PRIOR APPLICATION NUMBER: 09/488,725  
; PRIOR FILING DATE: 2000-01-21  
; NUMBER OF SEQ ID NOS: 1105  
; SOFTWARE: pt\_genes Version 1.0

```

; SEQ ID NO 431
; LENGTH: 1212
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (135)..(1007)
US-09-620-312D-431

Alignment Scores:
Pred. No.: 2,69e-37 Length: 1212
Score: 562.50 Matches: 128
Percent Similarity: 51.28% Conservative: 32
Best Local Similarity: 41.03% Mismatches: 121
Query Match: 28.80% Indels: 32
DB: Gaps: 9

US-10-037-417-46 (1-357) x US-09-620-312D-431 (1-1212)
QY 32 AAlaAgGlyProProGlyCysGlyValProGluProSerAlaArgIleValGlyGlySer 51
DB 192 GCCAAGCAGCAACAGCTGTGTGCTCCCGAGAGTCTGAACCGATGTGGCGGCGAG
QY 52 AaAlaGlnProGlyThrTrpProGlnValSerLeuHisGlyGlyGlyIle 71
DB 252 GAACAGCAGAGAGGCGCAGTGGCCCTGGCAAGTCAGATCCAGCGCAACGAGACCACTTC 311
QY 72 CysGlyGlySerLeuIleAlaProSerTrpValLeuSerAlaAlaHisCysPheMetThr 91
DB 312 TGGGGGGGAGCGCTTATCGCGAGCAGTGGGTCTGATGAGCTCGCAGCTTC----- 365
QY 92 AaGlyThrLeuGluProAlaAlaGluTrpSerValLeuLeuGlyValHisSerGlnAsp 111
DB 366 CGCAACACCTCTGAGACGTCCTCG--TACAGAGTCTGTGGGCGCAAGCGCATGAG 422
QY 112 GAlProLeuAspGlyAlaHisThrArgAlaValAlaAlaIleValValProAlaAsn-- 130
DB 423 CAGCCG-----GACCAACACGCTATGTATCCCGGGGTGAGGAGGTGAGAGCAACCC 476
QY 131 --TyrSerGlnValGluLeuGlyAlaAspLeuAlaLeuLeuArgLeuAlaSerProAla 149
DB 477 CTGTACAGAGGCGAGCGCTCCAGCGCTGAGCTGAGCGCTGAGTGGAGCTGAGAGCAGAG 536
QY 150 SerLeuGlyProAlaValTrpProValCysLeuProArgAlaSerHisArgPheValHis 169
DB 537 CCCTTCACCAATTACATCTCCCGCTGCTGCTGCTGACCCCTCGGTGATCTTTGAGAGC 596
QY 170 GAlThrAlaCysTrpAlaThrGlyTrpGlyAspValGlnGlnAlaAspProLeu 189
DB 597 GGCATGAACTGCTGGGTCACTGGCTGGGCGAGCCCGCATGAGAGAACTCTCCGCCGAA 656
QY 190 ProTrpValLeuGlnGlnValGluLeuArgLeuLeuGlyValAlaThrCysGlnCysLeu 209
DB 657 CCGCGATCTCTGAGAAACTCGCTGCCATCATGCACACCAAGTGCACCCCTGCTT 716
QY 210 TyrSerGlnProGlyProPheAsnLeuThrLeuGlnIleLeuProGly---MetLeuCys 228
DB 717 TACAGCAAAACACCGAGTTGGCTACCAACCAAAACCATCAAGAAATGACATGCTGTGC 776
QY 229 AAlaGlyTrpProGluArgArgAspThrCysGlnGlyAspSerGlyGlyProLeuVal 248
DB 777 GCCGGCTTCAGAGAGGCGCAAGAGATGCTGCAAGGCGCACTCGCGCGGCCCTGTGTG 836
QY 249 CysGlnGlnGlyGlyArgTrpPheGlnAlaGlyTyleHisSerPheGlyPheGlyCysGly 268
DB 837 TGCCTCGTGGTCACTGCTGCTGCGAGCGGCGGTGATCATGCTGGGTGAGGGCTGTGCC 896
QY 269 ArgArgAsnArgProGlyValAlaPheThrAlaValAlaThrTrpGlnAlaTrpIleArgGlu 288
DB 897 CGCCAGAAACCGCCAGAGTGTCTACATCCGTGTCACGCCCAACCAACTGATTCATCGG 956
QY 289 -----GlnValMetGlySerGlu-----Pro 295

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DB 957 ATCATCCCCCAACTGACGTGTCCA--GCCAGCAGAGTTGGCGGCCAGAAAGTGAACCCCCG 1015
QY 236 GlyProAlaPhePro-----ThrGlnProGlnLysThrClnSerAspCys 310
DB 1016 GGGCCAGAGAGCCCTTGGAGCAGAGCTTGACACCGCCTGCGCCGCCA----- 1063
QY 311 LeuHisGlnThrAlaPheLeuAspSerAlaArgIle 322
DB 1064 ---CACCATCTGCTGTGCTCTCCCAAGCGTGTGCTT 1096

RESULT 5
US-09-023-942A-30
; Sequence 30, Application US/09023942A
; Patent No. 6479274
; GENERAL INFORMATION:
; APPLICANT: (US ONLY) ANTALIS Toni Marie and HOOPER John David
; TITLE OF INVENTION: NOVEL MOLECULES
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSER: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 GARDEN CITY PLAZA
; CITY: GARDEN CITY
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,942A
; FILING DATE: 13-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: P05101/97
; FILING DATE: 13-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: P04422/97
; FILING DATE: 18-NOV-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: International PCT Application
; FILING DATE: 13-FEB-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: DIGIGLO, FRANK S
; REGISTRATION NUMBER: 31,346
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (516) 742 4343
; TELEFAX: (516) 742 4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 980 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-09-023-942A-30

Alignment Scores:
Pred. No.: 2.43e-37 Length: 980
Score: 561.50 Matches: 127
Percent Similarity: 51.63% Conservative: 31
Best Local Similarity: 41.50% Mismatches: 117
Query Match: 28.75% Indels: 32
DB: Gaps: 9

US-10-037-417-46 (1-357) x US-09-023-942A-30 (1-980)
QY 38 CysGlyArgProGluProSerAlaArgIleValGlyGlySerAsnAlaGlnProGlyThr 57
DB 3 TGTGTGCTGCCCGCAGAGTGTGAACCGATGTGGCGGCGAGCAGCAGAGAGGCGAG 62

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QY 58 TrpProTrrpGlnValSerLeuHisshisgilygilyhshisileCysgilygilySerLeuile 77
DB 63 TGGCCCTGGCAAGTCAAGATCCAGCGCAACGGAAGCACTTGGGGGGGCGAGCCCTCATC 122
QY 78 AlaProSerTrpValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeuGluPro 97
DB 123 GGGAGCACTGGGTCTGTGACGGCTGGCTGCTCTTC-----CGCAACACTCTTGAAGACG 176
QY 98 AlaAlaGluTrpSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAspGlyAla 117
DB 177 TCCCTG---TACCAAGTCTGCTGCTGGGGGCAAGGACAGTACAGCCG-----GAGCCA 227
QY 118 HisThrArgAlaValAlaAlaIleValValProAlaAsn-----TyrSerGlnValGlu 135
DB 228 CACGCTATGATATCCCGGGGTGAGCGAGGTGAGAGCAACCCCTGTACAGGGGCAAGCGCC 287
QY 136 LeuGlyAlaAspLeuAlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaVal 155
DB 288 TCCAGCGCTGACGTGGCCCTGTGGAGCTGGAGGACCAAGTCCCTTCAACCAATTACATC 347
QY 156 TrpProValCysLeuProArgAlaSerHisArgPheValHisGlyThrAlaCysThrAla 175
DB 348 CTCCCGGTGTGCTGTGCTGACCCCTCGGTGATCTTGAAGCGGGCAATGAACTGTGGGTTC 407
QY 176 ThrGlyTrrpGlyAspValGlnGlnAlaAspProLeuProLeuProTrrpValLeuGlnGlu 195
DB 408 ACTGGCTGGGGCAGGCCCGGAGTGAAGACCTCTGCCGCAACCGGGATCTCTGCAAGAA 467
QY 196 ValGluLeuArgLeuLeuGlyGluAlaThrCysGlnCysLeuTyrSerGlnProGlyPro 215
DB 468 CTGCGTGTGCCCATTCGACACACACCCCAAGTCAACCTGTCTACAGCAAGAACACCGAG 527
QY 216 PheAsnLeuThrLeuGlnHlleuProGly---MetLeuCysAlaGlyTyrProGluGly 234
DB 528 TTGGCTACCAACCCAAACCAATCAAGAAATGACATGCTGTGGCGGGCTTCAGAGAGGAC 587
QY 235 ArgArgAspThrCysGlnGlyAspSerGlyGlyProLeuValCysGlnGluGlyArg 254
DB 588 AAGAAGATGCTCGAAGAGGCGACCTGGGCGGCCCTGTGTGCTGTGGTGTGATGTC 647
QY 255 TrpPheGlnAlaGlyTyrLeuSerPheGlyPheGlyCysGlyArgArgAsnArgProGly 274
DB 648 TGGCTGACGGCGGGGTGTATCAGCTGGGTGTAGGGCTGTGGCCGCGCAGAACCGCCAGGT 707
QY 275 ValPheThrAlaValAlaThrTyrGluAlaTrrpIleArgGlu-----Gln 289
DB 708 GTTACATCTCGTGTACCGGCCCAACCACTGATTCATCGGATCATCCCAACTGCAG 767
QY 290 ValMetGlySerGlu-----ProGlyProAlaPhePro--- 300
DB 768 TTCCA-GCCAGCGAGGTGGGGGCGCAAGAGTGAACCCCGGGGCGCAGAACCCCTTGA 826
QY 301 -----ThrGlnProGlnTyrThrGlnSerAspCysLeuHisGlnThrAlaPhe 316
DB 827 GCAGAGCTCTGCACCCAGCTGCGCCGCCA-----CACCATCTCTGTGT 871
QY 317 LeuAspSerAlaArgIle 322
DB 872 CTTCCCGAGGCTGTGT 889

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; CURRENT FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 1130
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic acid
; US-09-387-375-8

Alignment Scores:
Pred. No.: 6.91e-37 Length: 1130
Score: 557.00 Matches: 114
Percent Similarity: 56.63% Conservative: 27
Best Local Similarity: 45.78% Mismatches: 98
Query Match: 28.52% Indels: 10
DB: Gaps: 3

US-10-037-417-46 (1-357) x US-09-387-375-8 (1-1130)

QY 46 ArgIleValGlyGlySerAsnAlaGlnProGlyThrTrpProTrrpGlnValSerLeuHis 65
DB 163 AAGATCGTGGGGGCTATGCTCTAGAGACGAGAGTGGCCCTGGCAGCGCATCCAG 222
QY 66 HisGlyGlyGlyHisIleCysGlyGlySerLeuIleAlaProSerTrpValLeuSerAla 85
DB 223 CATCTGGGGGACACAGTGTGGGGGGGTGTGCTCATTCGCCCCCAAGTGGGTGTGACAGCG 282
QY 86 AlaHisCysPheMetThrAsnGlyThrLeuGlnProAlaAlaGluTrpSerValLeuLeu 105
DB 283 GCGACCTGCTTCCCGAGAGGAGCACTG-----CCAGCTGAGTACCGGCTGGCGCTG 333
QY 106 GlyValHisSerGlnAspGlyProLeuAspGlyAlaHisThrArgAlaValAlaIle 125
DB 334 GGGGGCTGCTGTGGGCTCCACCTCGCCCGCAGCTCTGTGCTCGCCGTGGAGCGGTG 393
QY 126 ValValProAlaAsnTyrSerGlnValAlaGluLeuGlyAlaAspLeuAlaLeuLeuArg 145
DB 394 CTGCTGCCCGCGGATCTCTCCAGAGACGGGGCGCGGACCTGGACCTGTGCACTG 453
QY 146 AlaSerProAlaSerLeuGlyProAlaValTrrpProValCysLeuProArgAlaSerHis 165
DB 454 CGTGGCCCGGTGCCCTGAGCGCTCGCTGCCAACCCGTGCTGCTGCCCGCGCGCT 513
QY 166 ArgPheValHisGlyThrAlaCysTrrpAlaThrGlyTrrpGlyAspValGlnGluAlaAsp 185
DB 514 CGCCCGCGCCCGGACACCATGCGGGGTCAACCGGCTGGGGGAGGCTCGCCAGAGTG 573
QY 186 ProLeuProLeuProTrrpValLeuGlnGluValGluLeuArgLeuGlyGluAlaThr 205
DB 574 CCCCCTCCAGAGTGGCGACCGCTACAGAGAGTGAAGGTGCGCTGTGATCGCGCAC 633
QY 206 CysGlnCysLeuTyr-----SerGlnProGlyProPheAsnLeuThrLeuGln 221
DB 634 TCCAGCGGCTCTACACAGTGGGCGCGGACGCGCCAGAGCTGAGCGCATT----- 684
QY 222 IleLeuProGlyMetLeuCysAlaGlyTyrProGluGlyArgArgAspThrCysGlnGly 241
DB 685 GTGCTGCTGGAGAGTGTGTGTGCTGACCCCAAGGGGCGCACAGAGAGCGCTGCCAGGT 744
QY 242 AspSerGlyGlyProLeuValCysGlnGluGlyArgTrrpPheGlnAlaGlyTyrLeuThr 261
DB 745 GATTCTGGGGGACCTCTACCTGCTGACGAGTCTGGAGCTGTGCTGTGGCGGTGTG 804
QY 262 SerPheGlyPheGlyCysGlyArgArgAsnArgProGlyValPheThrAlaValAlaThr 281
DB 805 AGCTGGGGCAAGGGTGTGCTGCTGCCCAACCGTCAAGGGGTGTACACAGTGTGCGACA 864
QY 282 TyrGluAlaTrrpIleArgGluGlnVal 290
DB 865 TATAGCCCTGTGATTCAGGCTGGCGTC 891

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; US-09-387-375-8
; Sequence 8, Application US/09387375
; Patent No. 6485957
; GENERAL INFORMATION:
; APPLICANT: Darrow, Andrew
; APPLICANT: Andrade-Gordon, Patricia
; APPLICANT: Qi, Jensen
; TITLE OF INVENTION: DNA Encoding the Human Serine
; TITLE OF INVENTION: Proteinase B05
; FILE REFERENCE: ORT-1031
; CURRENT APPLICATION NUMBER: US/09/387,375

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RESULT 7
US-09-386-642-7
; Sequence 7, Application US/09386642
; Patent No. 6420157
; GENERAL INFORMATION:
; APPLICANT: Darrow, Andrew
; APPLICANT: Qi, Jensen
; APPLICANT: Andrade-Gordon, Patricia
; TITLE OF INVENTION: Zymogen Activation System
; FILE REFERENCE: ORT-1028
; CURRENT APPLICATION NUMBER: US/09/386,642
; CURRENT FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 1169
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Fusion gene
; OTHER INFORMATION: with homo sapien serine protease catalytic domain
US-09-386-642-7

Alignment Scores:
Pred. No.: 2,72e-36 Length: 1169
Score: 550.00 Matches: 113
Percent Similarity: 56.20% Conservative: 41
Best Local Similarity: 41.24% Mismatches: 112
Query Match: 28.16% Indels: 8
DB: Gaps: 3

US-10-037-417-46 (1-357) x US-09-386-642-7 (1-1169)
QY 46 ArgIleValGlySerAsnAlaGlnProGlyThrTrpProTyrGlnValSerLeuHis 65
DB 163 AAATATGCTGGGGGCTATGCTCTGCTCAAGAGCCGCTCAAGGCTCGGCTGAGCATCACC 222
QY 66 HisGlyGlyValHisIleCysGlySerLeuIleAlaProSerTrpValLeuSerAla 85
DB 223 TATGAAGGCTCCATGATGATGAGCTCTCTGCTGATGATGATGATGATGATGATGATGAT 282
QY 86 AlaHisCysPheMetThrAsnGlyThrLeuGluProAlaAlaGluTrpSerValLeuLeu 105
DB 283 GCTCACTGCTTCCCGACGACGACCAACAGAA-----GCTATGAGGTCAGCTG 333
QY 106 GlyValHisSerGlnAspGlyProLeuAspGlyAlaHisThrAlaAlaAlaIle 125
DB 334 GGGGCCCCAGCTAGCTCTCTCTCTCCAGAGCCGCTCAAGGTCAGCACTGAAGACATC 393
QY 126 ValValProAlaAsnTyrSerGlnValGluLeuGlyAlaAspLeuAlaLeuArgLeu 145
DB 394 ATCCCCCACCACGACTACCTCCAGAGGCTCCAGGCGCACATTCATCTCTCCAACTC 453
QY 146 AlaSerProAlaSerLeuGlyProAlaValTrpProValCysLeuProAlaSerHis 165
DB 454 AGCAGACCCACATCCTTCCCGCTACATCGGCGCATCTGCTCTCCGAGCCAAAGCC 513
QY 166 ArgPheValHisGlyThrAlaCysTrpAlaThrGlyTrpGlyAspValGlnGluAlaAsp 185
DB 514 TCCCTTCCCGACGCTCCATCTGCTCACTGCTGAGGCTGATGAGGCTGAGGCTGAGG 573
QY 186 ProLeuProLeuProTyrValLeuGlnGluValGluLeuArgLeuGlyGluAlaThr 205
DB 574 AGCCTCTGACGCCCAAGCCACATGACAACTGAGGTGCTGATCACTGCGAGACG 633
QY 206 CysGlnCysLeuTyrSerGlnProGlyProPheAsnLeuThrLeuGlnIleLeuProGly 225
DB 634 TGTAACTGCTGTAAACAATCATGACGCAAGCTGAGGACCGCATTTGTCCAAAGAGAC 693
QY 226 MetLeuCysAlaGlyTyrProGluGlyArgArgAspThrCysGlnGlyAspSerGlyGly 245
DB 694 ATGATGTGTCTGCTATGTGTGAGGGGGGCAAGACCGCTGCAAGGGTGACTCTGGGGGC 753

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QY 246 ProLeuValCysGluGluGlyGlyArgTrpPheGlnAlaGlyTyrLeuThrSerPheGlyPhe 265
DB 754 CACCTCTCTGCTCCCTGTGAGAGGCTCTCTGTACTTACAGGCGCATTTGAGCTGGAGAT 813
QY 266 GlyCysGlyArgArgAsnArgProGlyValPheThrAlaValAlaThrTyrGluAlaTrp 285
DB 814 GCCTGTGGGGCCCGCAACAGGCTGTGTGACACTCTGAGCTCCAGACTATGCTGCTGG 873
QY 286 IleArgGluGlnValMetGlySerGluProGlyProAlaPheProThrGlnProGlnLys 305
DB 874 ATCCAAAGCAAGGTG-----ACAGAACTCCAGCTCTGTGTGTGCTGCCCAAAACCAGAG 927
QY 306 ThrGlnSerAsp-----CysLeuHisGlnThrAlaPhe 316
DB 928 TCCCAAGCCGACAGCAACCTCTGTGCGACGACCTGCTTC 969

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RESULT 8
US-09-027-337-1
; Sequence 1, Application US/09027337B
; Patent No. 5972616
; GENERAL INFORMATION:
; APPLICANT: O'Brien, Timothy J.
; APPLICANT: Tanimoto, Hirotochi
; TITLE OF INVENTION: TADG-15: An Extracellular Serine Protease Overexpressed in
; FILE REFERENCE: D6064
; CURRENT APPLICATION NUMBER: US/09/027,337B
; CURRENT FILING DATE: 1998-02-20
; NUMBER OF SEQ ID NOS: 13
; SEQ ID NO 1
; LENGTH: 3147
; TYPE: DNA
; ORGANISM: Homo sapiens
; LOCATION: 23..2589
; OTHER INFORMATION: cDNA sequence of TADG-15
US-09-027-337-1

Alignment Scores:
Pred. No.: 1.26e-35 Length: 3147
Score: 549.00 Matches: 118
Percent Similarity: 51.80% Conservative: 40
Best Local Similarity: 38.69% Mismatches: 103
Query Match: 28.11% Indels: 44
DB: Gaps: 8

US-10-037-417-46 (1-357) x US-09-027-337-1 (1-3147)
QY 32 AlaArgGlyProProTyrCysGlyArgProGluPro-----SerAlaArgIleValGlySerAsn 43
DB 1763 AGCAAGGAGCAACCTGATGTGACGGGAGAGAGACTGTAGCGACGAGCTCAGATGAGAA 1822
QY 44 -----SerAlaArgIleValGlySerAsn 52
DB 1823 GACTGCGACTGTGAGGCTGCGCTCATTCACGAGACAGGCTGTGTGTGGGGGACAGGAT 1882
QY 53 AlaGlnProGlyThrTrpProTyrGlnValSerLeuHisHis---GlyGlyGlnHisIle 71
DB 1883 GCGGATGAGGGGCAAGTGGCCCTGGCAAGCTGATGCTGCTGCTGAGGCGCCACATC 1942
QY 72 CysGlyGlySerLeuIleAlaProSerTrpValLeuSerAlaAlaHisCysPheMetThr 91
DB 1943 TCGGGTCTTCCCTCACTCTCCCACTGCTGATCTGCTGCTGCTGCTGCTGCTGCTGCTG 2002
QY 92 AsnGly-----ThrLeuGluProAlaAlaGlnTrpSerValLeuLeuGlyValHisSer 109
DB 2003 GACAGAGATTACAGTACTCAACCCACGACGAGCTGCTCTGAGGCTTGCAGGAC 2062
QY 110 Gln---AspGlyProLeuAspGlyAlaHisThrArgAlaValAlaAlaIleValAlaPro 128
DB 2063 CAGAGCCAGGCGACGCGCCCTGGGGGTGACGAGAGCGGCTCAAGGCAATCATCTCCAC 2122

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QY 110 Gln---AspGlyProLeuAspGlyAlaHisThrArgAlaValAlaAlaIleValPro 128  
2063 CAGAGCCAGCGCAGCGCCCTGGGGTGCAGAGGCGAGGCTCAAGCGCATCATCTCCAC 2122  
QY 129 AlaAsnTYrSerGlnValGluLeuGlyAlaAspLeuAlaLeuLeuValGluAlaSerPro 148  
2123 CCCTCTTCAATGCACTTCACCTTCGACATATGACATCGGCTGAGAGCTGAGAGAACCG 2182  
QY 149 AlaSerLeuGlyProAlaValTyrProValCysLeuProAlaSerHisArgPheVal 168  
2183 GCAAGTACAGCTCCATGATGCGGCGCATCTGCTCGGAGCGCTCCCATGTTCTTCCCT 2242  
QY 169 HisGlyThrAlaCysTyrProAlaThrGlyTyrGlyAspValGlnGluAlaAspProLeuPro 188  
2243 GCCGCAAGCCATCTGGGTGACCGGGCTGGGGACACACCCAGTATGAGGACATCGGCGCG 2302  
QY 189 LeuProTyrValLeuGlnGluValGluLeuArgLeuLeuGlyGluAlaThrCysGlnCys 208  
2303 CTG-----ATCTGCAAAAGGTGAGATCCGCGTCAACACAGACCACTCGAGAGAAC 2356  
QY 209 LeuTYrSerGlnProGlyProPheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCys 228  
2357 CTCTGCCCGCAG-----CAGATCAGCGCGCGCATGATGTGC 2392  
QY 229 AlaGlyTYrProGlnGlyArgArgAspThrCysGlnGlyAspSerGlyProLeu--- 247  
2393 GTGGGCTTCTCCAGCGGCGGGGTGACCTGCGCAGGGGTGATTCGGGGGAGCCCTGTGCC 2452  
QY 248 ValCysGlnGluGlyGlyArgTyrPheGlnAlaGlyIleThrSerPheGlyPheGlyCys 267  
2453 AGCGTGGAGGCGGATGGCGCGATCTTCAGGCGCGGTGGTGGAGTGGGGAGAGCGGCTGC 2512  
QY 268 GlyArgArgAsnArgProGlyValPheThrAlaValAlaThrTyrGluAlaThrIleArg 287  
2513 GCTAGAGAGAACAGCCAGCGGTGTACACAGGCTCCTGTGTTGGGACCTGAGTCAAA 2572  
QY 288 GluGlnValMetGlySerGlnProGlyProAlaPheProThrGlnProGlnIleThrGln 307  
2573 GAGAACACTGGGGATAGGGCGCGCGGCA----- 2602  
QY 308 SerAspCysLeuHis 312  
2603 CCCAAATGTATACAC 2617  
Db 2603 CCCAAATGTATACAC 2617  
RESULT 12  
US-09-654-600A-18/C  
; Sequence 18, Application US/09654600A  
; Patent No. 6649741  
; GENERAL INFORMATION:  
; APPLICANT: O'Brien, Timothy J.  
; TITLE OF INVENTION: Tanimoto, Hirotooshi  
; TITLE OF INVENTION: Overexpressed in Carcinomas  
; FILE REFERENCE: D6064CIP/D  
; CURRENT FILING DATE: US/09/654, 600A  
; PRIOR APPLICATION NUMBER: 2000-09-01  
; PRIOR APPLICATION NUMBER: 09/421,213  
; 09/027,337  
; PRIOR FILING DATE: 1999-10-20  
; 1998-02-20  
; NUMBER OF SEQ ID NOS: 98  
; SEQ ID NO 18  
; LENGTH: 3147  
; TYPE: RNA  
; ORGANISM: Artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Antisense of TADG-15  
US-09-654-600A-18  
Alignment Scores: 1,266-35 Length: 3147  
Pred. No.: 549.00 Matches: 118  
Score:

Percent Similarity: 51.80% Conservative: 40  
Best Local Similarity: 38.69% Mismatches: 103  
Query Match: 28.11% Indels: 44  
DB: 4 Gaps: 8  
US-10-037-417-46 (1-357) x US-09-654-600A-18 (1-3147)  
QY 32 AlaArgIlyProProTYrCysGlyArgProGluPro----- 43  
1385 AGCAAGGCAACCTTGATGTGACGGAGAGAGACTGTAGCAGCGCTCATAGTGAAG 1326  
QY 44 -----SerAlaArgIleValGlyIleSerHis 52  
1325 GACTGCACTGTGGGCTGGGCTGATTCACAGACAGAGCGCTGTGTTGGGGGACGGAT 1266  
QY 53 AlaGlnProGlyThrTyrProTyrGlnValSerLeuHisHisGlyGlyValHisIle 71  
1265 GCGGATGAGGCGGAGTGGCTTGGCAGAGTAACTTCATGTCTGGGCGCAGGCGCATC 1206  
QY 72 CysGlyIlySerLeuIleAlaProSerTyrValLeuSerAlaAlaHisCysPheMetThr 91  
1205 TGGGTCCTTCCCTCATCTCTCCCACTGGCTGTCTGCGCACACTGCTATCATCAT 1146  
QY 92 AsnGly-----ThrLeuGlnProAlaAlaGluTyrSerValLeuLeuGlyValHisSer 109  
1145 GACAGAGATTCAGATCTACAGACCCACGAGTGGACGCGCTTCTGGGCTTGACACAC 1086  
QY 110 Gln---AspGlyProLeuAspGlyAlaHisThrArgAlaValAlaAlaIleValPro 128  
1085 CAGAGCCAGCGCAGCGCCCTGGGGTGCAGAGGCGCAGGCTCAAGCGCATATCTCCAC 1026  
QY 129 AlaAsnTYrSerGlnValGluLeuGlyAlaAspLeuAlaLeuLeuValGluAlaSerPro 148  
1205 CCCTTCTCAATGATCTTCACTTCGATGACATCGGCTGCTGAGAGCTGAGAGAACCG 966  
QY 149 AlaSerLeuGlyProAlaValTyrProValCysLeuProAlaGlnAlaSerHisArgPheVal 168  
965 GCAAGTACAGCTCCATGATGCGGCGCATCTGCTGCGAGCGCTCCCATGTTCTTCCCT 906  
QY 169 HisGlyThrAlaCysTyrProAlaThrGlyTyrGlyAspValGlnGluAlaAspProLeuPro 188  
905 GCCGCAAGCCATCTGGGTGACCGGCTGGGGACACACCCAGTATGAGGACATCGCGCG 846  
QY 189 LeuProTyrValLeuGlnGluValGluLeuArgLeuLeuGlyGluAlaThrCysGlnCys 208  
845 CTG-----ATCTGCAAAAGGTGAGATCCGCGTCAACACAGACCACTCGAGAGAAC 792  
QY 209 LeuTYrSerGlnProGlyProPheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCys 228  
791 CTCTGCCCGCAG-----CAGATCAGCGCGCGCATGATGTGC 756  
QY 229 AlaGlyTYrProGlnGlyArgArgAspThrCysGlnGlyAspSerGlyProLeu--- 247  
755 GTGGGCTTCTCCAGCGGCGGGGTGACCTCCGCGAGGTATTCGGGGAGACCCCTGTGCC 696  
QY 248 ValCysGlnGluGlyGlyArgTyrPheGlnAlaGlyIleThrSerPheGlyPheGlyCys 267  
695 AGCGTGGAGGCGGATGGCGGATCTTCAGGCGCGGTGGTGGAGCTGGGGAGACGCGTGC 636  
QY 268 GlyArgArgAsnArgProGlyValPheThrAlaValAlaThrTyrGluAlaThrIleArg 287  
635 GCTAGAGAGAACAGCCAGCGGTGTACACAGGCTCCTGTGTTGGGACCTGAGTCAAA 576  
QY 288 GluGlnValMetGlySerGlnProGlyProAlaPheProThrGlnProGlnIleThrGln 307  
575 GAGAACACTGGGGATAGGGCGCGGCGCA----- 546  
QY 308 SerAspCysLeuHis 312  
545 CCCAAATGTATACAC 531  
Db 545 CCCAAATGTATACAC 531  
RESULT 13  
US-09-907-794A-262

```

1 Sequence 262, Application US/09907794A
2 Patent No.6635468
3
4 GENERAL INFORMATION:
5 APPLICANT: Genentech, Inc.
6 APPLICANT: Ashkenazi, Avi
7 APPLICANT: Botstein, David
8 APPLICANT: Desnoyers, Luc
9 APPLICANT: Eaton, Dan L.
10 APPLICANT: Ferrara, Napoleone
11 APPLICANT: Filvaroff, Ellen
12 APPLICANT: Fong, Sherman
13 APPLICANT: Gao, Wei-Qiang
14 APPLICANT: Gerber, Hanspeter
15 APPLICANT: Gerritsen, Mary E.
16 APPLICANT: Goddard, A.
17 APPLICANT: Godowski, Paul J.
18 APPLICANT: Grimaldi, Christopher J.
19 APPLICANT: Gueney, Austin L.
20 APPLICANT: Hillan, Kenneth, J.
21 APPLICANT: Kljavin, Ivar J.
22 APPLICANT: Mathew, Jennie P.
23 APPLICANT: Pan, James
24 APPLICANT: Paoni, Nicholas F.
25 APPLICANT: Roy, Margaret Ann
26 APPLICANT: Stewart, Timothy A.
27 APPLICANT: Tunas, Daniel
28 APPLICANT: Williams, P. Mickey
29 APPLICANT: Wood, William, I.
30
31 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
32
33 FILE OF INVENTION: Acid Encoding the Same
34
35 FILE REFERENCE: 10466-14
36
37 CURRENT APPLICATION NUMBER: US/09/907,794A
38
39 CURRENT FILING DATE: 2001-07-17
40
41 PRIOR APPLICATION NUMBER: PCT/US00/04414
42
43 PRIOR FILING DATE: 2000-02-22
44
45 PRIOR APPLICATION NUMBER: US 60/143,048
46
47 PRIOR FILING DATE: 1999-07-07
48
49 PRIOR APPLICATION NUMBER: US 60/145,638
50
51 PRIOR FILING DATE: 1999-07-26
52
53 PRIOR APPLICATION NUMBER: US 60/146,222
54
55 PRIOR FILING DATE: 1999-07-28
56
57 PRIOR APPLICATION NUMBER: PCT/US99/20594
58
59 PRIOR FILING DATE: 1999-09-08
60
61 PRIOR APPLICATION NUMBER: PCT/US99/20944
62
63 PRIOR FILING DATE: 1999-09-13
64
65 PRIOR APPLICATION NUMBER: PCT/US99/21090
66
67 PRIOR FILING DATE: 1999-09-15
68
69 PRIOR APPLICATION NUMBER: PCT/US99/21547
70
71 PRIOR FILING DATE: 1999-09-15
72
73 PRIOR APPLICATION NUMBER: PCT/US99/23089
74
75 PRIOR FILING DATE: 1999-10-05
76
77 PRIOR APPLICATION NUMBER: PCT/US99/28214
78
79 PRIOR FILING DATE: 1999-11-29
80
81 PRIOR APPLICATION NUMBER: PCT/US99/28313
82
83 PRIOR FILING DATE: 1999-11-30
84
85 PRIOR APPLICATION NUMBER: PCT/US99/28564
86
87 PRIOR FILING DATE: 1999-12-02
88
89 PRIOR APPLICATION NUMBER: PCT/US99/28565
90
91 PRIOR FILING DATE: 1999-12-02
92
93 PRIOR APPLICATION NUMBER: PCT/US99/30095
94
95 PRIOR FILING DATE: 1999-12-16
96
97 PRIOR APPLICATION NUMBER: PCT/US99/30911
98
99 PRIOR FILING DATE: 1999-12-20
100
101 PRIOR APPLICATION NUMBER: PCT/US99/30999
102
103 PRIOR FILING DATE: 1999-12-20
104
105 PRIOR APPLICATION NUMBER: PCT/US00/00219
106
107 PRIOR FILING DATE: 2000-01-05
108
109 NUMBER OF SEQ ID NOS: 423
110
111 SEQ ID NO 262
112
113 LENGTH: 1378
114
115 TYPE: DNA
116
117 ORGANISM: Homo Sapien
118
119 US-09-907-794A-262

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Db 955 TGGGGCCCTCAGGAGCAGGAGGCT-CTGGGCGCCGCGGCTCTAGGGCGAG 1013  
Qy 308 SeraspCysleuHisGlnThrAlaPheleuhsPserAlaArgIleleuLeuArgProleu 327  
Db 1014 CGGAGC-----GCGGGGCTCGGATCTGAAG-----CGGCAAGT 1049  
Qy 328 SerHisleuSerVal-----GlyValSerThrGlyThrIysSerleu 341  
Db 1050 CCACATCTGATCTGATCTGGCGGCGCTCGGCGGCTTCCCGCCGTAATAGAGCTC 1109  
Qy 342 ValIeuProTleuSerProHisSerleuGlyIleuTProGly 356  
Db 1110 ATC-----TACCTTAACCTCTGGGG 1130

RESULT 14  
US-09-905-125A-262  
Sequence 262. Application US/0905125A  
Patent No. 6664376  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/905,125A  
CURRENT FILING DATE: 2001-07-12  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02

Db PRIOR APPLICATION NUMBER: PCT/US99/28565  
Qy PRIOR FILING DATE: 1999-12-02  
Db PRIOR APPLICATION NUMBER: PCT/US99/30095  
Qy PRIOR FILING DATE: 1999-12-16  
Db PRIOR APPLICATION NUMBER: PCT/US99/30911  
Qy PRIOR FILING DATE: 1999-12-20  
Db PRIOR APPLICATION NUMBER: PCT/US99/30999  
Qy PRIOR FILING DATE: 1999-12-20  
Db PRIOR APPLICATION NUMBER: PCT/US00/00219  
Qy PRIOR FILING DATE: 2000-01-05  
Db NUMBER OF SEQ ID NOS: 423  
Qy SEQ ID NO 262  
Db LENGTH: 1378  
Qy TYPE: DNA  
Db ORGANISM: Homo Sapien  
Qy US-09-905-125A-262

Alignment Scores:  
Pred. No.: 8.75e-36 Length: 1378  
Score: 545.00 Matches: 134  
Percent Similarity: 48.00% Conservative: 46  
Best Local Similarity: 35.73% Mismatches: 146  
Query Match: 27.91% Indels: 51  
Gaps: 9

US-10-037-417-46 (1-357) x US-09-905-125A-262 (1-1378)

Qy 7 LeuGlyProGlyGlnLeuGlyAlaValAlaSerAspSerIysSerIeuTyrGlyIeu 26  
Db 80 CTGGGTGGGGGCTGTCTGGGACCTTACCTCCCTGCTGCTGCGCTGACAGCCATC 139  
Qy 27 ValProSerGlyProAlaArgIlyProEProTyrCysGlyAysProGluProSerAlaArg 46  
Db 140 CTCATGGGCGCAGAGATACCTGTTCCCGACCGCTGGGAAGCCACAGCTGAACCG 199  
Qy 47 IleValGlyGlySerAsnAlaGlnProGlyThrProTProGlnValSerIeuHis 66  
Db 200 GTTGGGGCGCGGAGAGACCTGACCTGACGAGGCGCCCTGATCTGATGATCAGAG 259  
Qy 67 GlyGlyGlyHisIleCysGlyGlySerIeuIleAlaProSerTProValIeuSerAla 86  
Db 260 AATGGAGCCACCACTGGCGAGGTTCTGTCTCACACCGCTGGGTATCATCTGCTCC 319  
Qy 87 HisCysPheMetThrAsnGlyThrIeuGluProAlaAlaGluTProSerValIeuGly 106  
Db 320 CACTGTTTCAAGAGCAAC-----CTGAACAACATACCTGTTCTGTGCTGTGGGG 373  
Qy 107 ValHisSerGlnAspGlyProleuhsPglValaHisThrArgAlaValAlaIleVal 126  
Db 374 GCTGGCAGCTGGGGAACCTCGGCTCTGCGTCCGAGAGGAGGTGGTGGCTGGAG 433  
Qy 127 ValProAlaSerIysSerGlnValGlu---LeuGlyAlaAspLeuAlaIeuArgIeu 145  
Db 434 CCCACCTCTGTGTTTCTTCTGGAAGAGAGTCTGTGCAACATTCCTGTGTGTCTC 493  
Qy 146 AlaSerProAlaSerIeuGlyProAlaValTProValCysIeuProArgAlaSerHis 165  
Db 494 GAGGCTCCATACAGTTTCTGAGAGGGGTCTGCGCCATCTGACCTGAGTCCCTATC 553  
Qy 166 ArgPheValHisGlyThrAlaCysETProAlaThrGlyTProGlyAspValGlnGluAla 185  
Db 554 CACCTCCCTCAAAACCCACCTGCTGATCTGAGCTGGAGCTGGAGCATCAAGATGAGTT 613  
Qy 186 ProIeuProIeuProTProValIeuGlnIuValGluIeuArgIeuGlyGluAlaThr 205  
Db 614 CCGTTGCCCACTCCTGACACCTCTGACAGAGCTGAAGTCTCTATATATGACTCGGAATC 673  
Qy 206 CysGlnCysIeuTyr-----SerGlnProGlyProPheAsnIeuThrIeuGlnIle 222  
Db 674 TGCAGCCATCTGTACTGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 715  
Qy 223 LeuProGlyMetIeuCysAlaGlyTyrProGlnGlyArgArgAspThrCysGlnIlyAsp 242

Db 716 ACTGAGAGATGCTGTGTGTCGCCGCTACTTGAAGGGGAGACGGAGTCTGTGCGGCAC 775  
Qy 243 SerGlyGlyProLeuValCysGluGluGlyGlyArgTyrPheGlnAlaGlyTyrSer 262  
Db 776 TCCGGGGGGCCCCCTCATGTGCGCAGGAGGAGCGCGCTGCTGCGCCGATCATCAGC 835  
Qy 263 PheGlyPheGlyCysGlyArgAspAspProGlyValPheThrAlaValAlaThrTyr 282  
Db 836 TGGGGGAGGGCTGTGCTCCGAGCGCAAGGCCGGGGGTCTACATCAGCTCTGCGCAC 895  
Qy 283 GluAlaTyrIleArgGluGln----- 289  
Db 896 CGCTCTGGGTGA-GAAGATGTCGACAGGGGTCAGCTCCGCGGGCGGCTCAGGGGG 954  
Qy 290 -----ValMetGlySerGluProGlyProAlaPheProThrGlnProGlnThrGln 307  
Db 955 TGGGGGCTCAGGGGCGCAGCGAGGGCT-CTGGGGCCCCCGGCGCTCTAGGGGCGAG 1013  
Qy 308 SerAspCysLeuHisGlnThrAlaPheLeuAspSerAlaArgIleLeuLeuArgProLeu 327  
Db 1014 CGGGAC-----GGGGGCTTCGATCTGAAG-----CGCCAGAT 1049  
Qy 328 SerHisIleSerVal-----GlyValSerThrGlyThrTyrSerLeu 341  
Db 1050 CCACATCTGATCTGATCTGCGCGCGGCTCGGGCGGTTCCCGCCGCTAAATAGGCTC 1109  
Qy 342 ValLeuProTyrLeuSerProHisSerLeuLeuGlyLeuTyrGly 356  
Db 1110 ATC-----TACCTTACTCTCGGGG 1130

## RESULT 15

US-09-902-775A-262  
Sequence 262, Application US/09902775A

Patent No. 6686451  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kijavich, Ivar J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Thomas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/902,775A  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28

PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/22089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/28565  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30911  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US00/00219  
PRIOR FILING DATE: 2000-01-05  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 262  
LENGTH: 1378  
TYPE: DNA  
ORGANISM: Homo Sapien

US-09-902-775A-262

Alignment Scores:  
Pred. No.: 8,756-36 Length: 1378  
Score: 545.00 Matches: 134  
Percent Similarity: 48.00% Conservative: 46  
Best Local Similarity: 35.73% Mismatches: 146  
Query Match: 27.91% Indels: 51  
DB: 4 Gaps: 9

US-10-037-417-46 (1-357) x US-09-902-775A-262 (1-1378)

Qy 7 LeuGlyProGlyGlnLeuGlyAlaValAlaAsnSerAspSerTyrSerLeuTyrGlyLeu 26  
Db 80 CTGGGTGGGGGCTGTCCGACCTTCACCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTG 139  
Qy 27 ValProSerGlyProAlaArgGlyProProTyrCysGlyArgProGlnProSerAlaArg 46  
Db 140 CTCGAATGCGGCGCAGGATACCTGTCCCGACGCTGCGGAAGCCCGACGAGCTGAACCG 199  
Qy 47 IleValGlyGlySerAsnAlaGlnProGlyThrTyrProTyrGlnAlaSerLeuHis 66  
Db 200 GTTGTGGGGCGGAGGACGACTGACAGAGAGTGGCTGTGATCGTGAAGCATCGAGAAG 259  
Qy 67 GlyGlyGlyHisIleCysGlyGlySerLeuLeuAlaProSerTyrValLeuSerAla 86  
Db 260 AATGGACCCACACACGCGCAGGATCTCTGCTACAGCGCGCTGGGTATCATGCTGCC 319  
Qy 87 HisCysPheMetThrAsnGlyThrLeuGluProAlaAlaGlnTyrSerValLeuLeuGly 106  
Db 320 CACTGTTCAAGGACAA-----CTGAACAAACCATCTGTTCTGTGCTGCTGCGG 373  
Qy 107 ValHisSerGlnAspGlyProLeuArgGlyAlaHisThrArgAlaValAlaIleVal 126  
Db 374 GCCTGGACGCTGGGAGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 433  
Qy 127 ValProAlaAsnTyrSerGlnValGlu-----LeuGlyAlaAspLeuAlaLeuArgLeu 145  
Db 434 CCCACCTGTGATTCCTGGAAGGAGTGGCTGCGAGACATTCCTGCTGCTGCTGCTG 493  
Qy 146 AlaSerProAlaSerLeuGlyProAlaValTyrProValCysLeuProAlaGlnSerHis 165

Db	494	GAGGCGTCATACAACTTCTCAGAGCGGCTCCCGCCATCTCTACCTGATGCGCTTATC	553
Qy	166	ArgpheValHisGlyThrAlaCysTrpAlaThrGlyTyrGlyAspValGlnGluAlaAsp	185
Db	554	CACCTCCCTCCAAAACACCACCTGCTGGATCTTCAGGCTCTGGGGAGAGCTCAAGATGAGTT	613
Qy	186	ProLeuProLeuProTyrValLeuGlnIleValGluLeuArgLeuLeuGlyGluAlaThr	205
Db	614	CCCTTGCCTCCACCTTCAGACCTTCGCAAGAGCTGAAGGTTCCTATCATGACTCGGAAGTC	673
Qy	206	CysGlnCysLeuTyr-----SerGlnProGlyProPheAsnLeuThrLeuGlnIle	222
Db	674	TGCAGCCATCTGTACTGCGGGGAGACAGACAGGAGCC-----ATC	715
Qy	223	LeuProGlyMetLeuCysAlaGlyTyrProGlnGlyAspThrCysGlnGlyAsp	242
Db	716	ACTGAGACATAGCTGTGTGCGCGCTACTTGAAGGGGAGCGAGAGCTTGTCTGGCGAC	775
Qy	243	SerGlyGlyProLeuValCysGluGluGlnGlyGlyArgTyrPheGlnAlaGlyIleThrSer	262
Db	776	TCCGGGGGGCCCCCTCATGTGTCAGGTGAGCGGCGCTGGCTGTGCGCGGATCATGAC	835
Qy	263	PheGlyPheGlyCysGlyArgArgAsnArgProGlyValPheThrAlaValAlaThrTyr	282
Db	836	TGGGGCGAGGGCTGTGCGGACGAGCAAGCGCCGGGGCTTACATCAGCGCTCTCGCGCAC	895
Qy	283	GluAlaTrpIleArgGluGln-----	289
Db	896	CGCTCTGTGGTGGA-GAAGATCGTGCMAAGGGTGCAGTCCGGGGCGCGCTCAGGGGG	954
Qy	290	-----ValMetGlySerGlnProGlyProAlaPheProThrGlnProGlnLysThrGln	307
Db	955	TGGGGCGCTCAGGGCACCGACCGAGGGCT-CTGGGGCGCGCGCGGCTCTTACGAGCGCAG	1013
Qy	308	SerAspCysLeuHisGlnThrAlaPheLeuAspSerAlaArgIleLeuLeuArgProLeu	327
Db	1014	CGGAGC-----GCGGGGCTCGAATCGAAAG-----CGGCGAAT	1049
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Qy	342	ValLeuProTyrProLeuSerProHisSerLeuLeuGlyLeuTyrGly	356
Db	1110	ATC-----TACCTTACATCTTGGGGG	1130

Blank Sheet



GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: August 4, 2004, 13:39:52 ; Search time 485 Seconds

(without alignments)  
3609.115 Million cell updates/sec

Title: US-10-037-417-46

Perfect score: 1953

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Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 3222919 segs, 2451570024 residues

Total number of hits satisfying chosen parameters: 6445838

Minimum DB seg length: 0  
Maximum DB seg length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Command line parameters:  
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-Q=/cgn2\_1/USPFO\_spool\_p/US10037417/runat\_30072004\_090755\_26620/app\_query.fasta\_1.519  
-DB=Published Applications NA -OFMT=fasta -SUFIX=rmpb -MINMATCH=0.1  
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-TRANS=human40.cdi -LIST=45 -DOALIGN=200 -THR SCORE=pct -THR MAX=100  
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-NCPU=6 -ICPU=3 -NO\_MMAP -LARGEQUERY -NEG\_SCORES=0 -WAIT -DSPELOC=100  
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREDS=1 -XGAPOP=10 -XGAPEXT=0.5  
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Database : Published Applications NA:\*

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3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq:\*  
4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq:\*  
5: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq:\*  
6: /cgn2\_6/ptodata/1/pubpna/PCTUS\_PUBCOMB.seq:\*  
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13: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq2:\*  
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19: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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1	1953	100.0	1102	13	US-10-037-417-43	Sequence 43, Appl
2	1953	100.0	1102	13	US-10-037-417-45	Sequence 45, Appl
3	1505	77.1	2457	9	US-09-888-615-52	Sequence 52, Appl
4	697	35.7	1733	15	US-10-176-847-85	Sequence 85, Appl
5	697	35.7	1834	9	US-09-948-094-1	Sequence 1, Appl
6	697	35.7	1834	9	US-09-880-107-2214	Sequence 2214, Ap
7	697	35.7	1834	9	US-09-967-7684-141	Sequence 141, Appl
8	697	35.7	1834	12	US-09-968-0072-115	Sequence 115, Appl
9	697	35.7	1834	12	US-09-968-0072-379	Sequence 379, Appl
10	697	35.7	1834	15	US-10-097-140-261	Sequence 261, Appl
11	697	35.7	3382	15	US-10-101-510-447	Sequence 447, Appl
12	665	34.1	1668	9	US-09-925-301-208	Sequence 208, Appl
13	652	33.4	1726	13	US-10-042-865-29	Sequence 29, Appl
14	627.5	32.1	1797	15	US-10-109-616-1	Sequence 1, Appl
15	612	31.3	1161	13	US-10-042-865-31	Sequence 31, Appl
16	603.5	30.9	1606	17	US-10-470-390A-35	Sequence 35, Appl
17	603.5	30.9	1613	14	US-10-041-400A-1	Sequence 1, Appl
18	603.5	30.9	1613	14	US-10-041-264A-1	Sequence 1, Appl
19	603.5	30.9	1613	14	US-10-042-091A-1	Sequence 1, Appl
20	597	30.6	944	17	US-10-311-591A-5	Sequence 5, Appl
21	596.5	30.5	849	17	US-10-451-168-47	Sequence 47, Appl
22	591	30.3	1020	16	US-10-051-874-25	Sequence 25, Appl
23	590	30.2	843	17	US-10-451-168-46	Sequence 46, Appl
24	589	30.2	2662	17	US-10-275-505-27	Sequence 27, Appl
25	582.5	29.8	1958	17	US-10-311-035-29	Sequence 29, Appl
26	576	29.5	768	17	US-10-311-591A-1	Sequence 1, Appl
27	575.5	29.5	768	15	US-10-221-097-10	Sequence 10, Appl
28	575.5	29.5	882	13	US-10-042-865-33	Sequence 33, Appl
29	571.5	29.3	882	13	US-10-042-865-34	Sequence 34, Appl
30	565	28.9	1887	9	US-09-888-615-27	Sequence 27, Appl
31	565	28.9	1973	15	US-10-190-0308-15	Sequence 15, Appl
32	563.5	28.9	1110	14	US-10-040-655-1	Sequence 1, Appl
33	563.5	28.9	1110	14	US-10-041-006A-1	Sequence 1, Appl
34	563.5	28.9	1129	13	US-10-147-493-221	Sequence 221, Appl
35	563.5	28.9	1129	13	US-10-145-127-221	Sequence 221, Appl
36	563.5	28.9	1129	13	US-10-160-503-221	Sequence 221, Appl
37	563.5	28.9	1129	13	US-10-143-118-221	Sequence 221, Appl
38	563.5	28.9	1129	13	US-10-144-993-221	Sequence 221, Appl
39	563.5	28.9	1129	13	US-10-158-787-221	Sequence 221, Appl
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41	563.5	28.9	1129	13	US-10-140-808-221	Sequence 221, Appl
42	563.5	28.9	1129	13	US-10-152-805-221	Sequence 221, Appl
43	563.5	28.9	1129	13	US-10-127-852A-221	Sequence 221, Appl
44	563.5	28.9	1129	13	US-10-127-900A-221	Sequence 221, Appl
45	563.5	28.9	1129	13	US-10-128-865A-221	Sequence 221, Appl

## ALIGNMENTS

RESULT 1  
US-10-037-417-43  
; Sequence 43, Application US/10037417  
; Publication No. US20040052806A1  
; GENERAL INFORMATION:  
; APPLICANT: Kexunda, Ramesh  
; APPLICANT: Alsobrook II, John P  
; APPLICANT: Tchiernev, Velizar T  
; APPLICANT: Liu, Xiaohong  
; APPLICANT: Spytek, Kimberly A  
; APPLICANT: Patturajan, Meera  
; APPLICANT: Grosje, William M  
; APPLICANT: Leprey, Denise M  
; APPLICANT: Burgess, Catherine E  
; APPLICANT: Vermet, Corine A.M.  
; APPLICANT: Li, Li  
; APPLICANT: Gorman, Linda  
; APPLICANT: Edinger, Shlomit R  
; APPLICANT: Sciore, Paul  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Malyskari, Uriel M  
; APPLICANT: Rothenberg, Mark  
; APPLICANT: Stone, David J

/ APPLICANT: Boldog, Ferenc L  
 / APPLICANT: Guo, Xiaojia  
 / APPLICANT: Shenoy, Suresh G  
 / APPLICANT: Anderson, David W  
 / APPLICANT: Padigaru, Muraidhara  
 / APPLICANT: Taupier Jr, Raymond J  
 / APPLICANT: Miller, Charles E  
 / APPLICANT: Bisen, Andrew J  
 / TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same  
 / FILE REFERENCE: 21402-235  
 / CURRENT APPLICATION NUMBER: US/10/037,417  
 / CURRENT FILING DATE: 2002-09-20  
 / PRIOR APPLICATION NUMBER: 60/260,018  
 / PRIOR FILING DATE: 2001-01-05  
 / PRIOR APPLICATION NUMBER: 60/260,360  
 / PRIOR FILING DATE: 2001-01-08  
 / PRIOR APPLICATION NUMBER: 60/272,411  
 / PRIOR FILING DATE: 2001-02-28  
 / PRIOR APPLICATION NUMBER: 60/272,817  
 / PRIOR FILING DATE: 2001-03-02  
 / PRIOR APPLICATION NUMBER: 60/291,186  
 / PRIOR FILING DATE: 2001-05-15  
 / PRIOR APPLICATION NUMBER: 60/303,231  
 / PRIOR FILING DATE: 2001-07-05  
 / PRIOR APPLICATION NUMBER: 60/305,060  
 / PRIOR FILING DATE: 2001-07-12  
 / PRIOR APPLICATION NUMBER: 60/318,405  
 / PRIOR FILING DATE: 2001-09-10  
 / PRIOR APPLICATION NUMBER: 60/318,700  
 / PRIOR FILING DATE: 2001-09-12  
 / NUMBER OF SEQ ID NOS: 227  
 / SOFTWARE: Patentin Ver. 2.1  
 / SEQ ID NO 43  
 / LENGTH: 1102  
 / TYPE: DNA  
 / ORGANISM: Homo sapiens  
 / US-10-037-417-43

Alignment Scores:  
 Pred. No.: 4e-180 Length: 1102  
 Score: 1953.00 Matches: 357  
 Percent Similarity: 100.00% Conservative: 0  
 Best Local Similarity: 100.00% Mismatches: 0  
 Query Match: 100.00% Indels: 0  
 DB: 13 Gaps: 0

US-10-037-417-46 (1-357) x US-10-037-417-43 (1-1102)

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 QY 21 TyrSerLeuTyrGlyLeuValProSerGlyProAlaArgGlyProProTyrCysGlyArg 40  
 Db 79 TACTCATTTTACGGGTGGTGGCCGTCCGAGCCGCTAGGGGGCCCCCGTACTGGGGCCG 138  
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 Db 139 CCGAGCCCTCGCCCGCCGCTCGGGGGGCTCAAGCCGCGAGCCGGGCACTGGCTTGG 198  
 QY 61 GlnValSerLeuHisGlyGlyGlyHisGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGly 80  
 Db 199 CAAGTAGCGCTGACCATGAGAGGTGGCCATCTGGGGGGGCTCCCTCATCGCCCTCC 258  
 QY 81 TrpValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeuGlnProAlaAlaGlu 100  
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 QY 121 AlaValAlaAlaIleValValProAlaAsnTyrSerGlnValGlnLeuGlyAlaAspLeu 140

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 QY 201 LeuGlyGlnAlaThrCysGlnCysLeuTyrSerGlnProGlyProPheAsnLeuThrLeu 220  
 Db 619 CTGGGGGAGGCGCCCTGTCATGTCCTACAGCAGCCGCTGCTTCAACCTCACTCTC 678  
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 Db 679 CAGATATGCGAGGAGTGTGTGTGCTGCTACCCAGAGGCGCGAGGACACTGCGAG 738  
 QY 241 GlyAspSerGlyGlyProLeuValCysGlnGlnGlyValArgTrpPheGlnAlaGlyIle 260  
 Db 739 GGTGACTTGGGGGGGCTCGTGGTGTGAGGAGAGGCGCGCTGTTCCAGCAGGAGATC 798  
 QY 261 ThrSerPheGlyPheGlyCysGlyValArgArgAsnArgProGlyValAlaPheThrAla 280  
 Db 799 ACCAGCTTGGGTGGTGGCTGTGACCGAGAAACCGGCTGGAGTTTTCATGCTGGGCT 858  
 QY 281 ThrTyrGlnAlaTrpIleArgGlnGlnValMetGlySerGlnProGlyProAlaPhePro 300  
 Db 859 ACCTATGAGGATGATGATGAGGAGCGAGTGAAGGTTCAAGGCTTGGCTTGTCC 918  
 QY 301 ThrGlnProGlnLysThrGlnSerAspCysLeuHisGlnThrAlaPheLeuAspSerAla 320  
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RESULT 2  
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 / Publication No. US20040052806A1  
 / GENERAL INFORMATION:  
 / APPLICANT: Kekuda, Ramesh  
 / APPLICANT: Alsobrook II, John P  
 / APPLICANT: Tchernev, Velizar T  
 / APPLICANT: Liu, Xiaohong  
 / APPLICANT: Spylek, Kimberly A  
 / APPLICANT: Patwardhan, Meera  
 / APPLICANT: Grose, William M  
 / APPLICANT: Lepley, Denise M  
 / APPLICANT: Burgess, Catherine E  
 / APPLICANT: Vernet, Corine A.M.  
 / APPLICANT: Li, Li  
 / APPLICANT: Gorman, Linda  
 / APPLICANT: Edinger, Shlomit R  
 / APPLICANT: Sciore, Paul  
 / APPLICANT: Eilerman, Karen  
 / APPLICANT: Malysankar, Uriel M  
 / APPLICANT: Rothenberg, Mark  
 / APPLICANT: Stone, David J  
 / APPLICANT: Boldog, Ferenc L  
 / APPLICANT: Guo, Xiaojia  
 / APPLICANT: Shenoy, Suresh G

APPLICANT: Anderson, David W  
APPLICANT: Padigaru, Muralidhara  
APPLICANT: Taupier Jr, Raymond J  
APPLICANT: Miller, Charles E  
APPLICANT: Eisen, Andrew J  
TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same  
FILE REFERENCE: 21402-235  
CURRENT APPLICATION NUMBER: US/10/037, 417  
CURRENT FILING DATE: 2002-09-20  
PRIOR APPLICATION NUMBER: 60/260, 018  
PRIOR FILING DATE: 2001-01-05  
PRIOR APPLICATION NUMBER: 60/260, 360  
PRIOR FILING DATE: 2001-01-08  
PRIOR APPLICATION NUMBER: 60/272, 411  
PRIOR FILING DATE: 2001-02-28  
PRIOR APPLICATION NUMBER: 60/272, 817  
PRIOR FILING DATE: 2001-03-02  
PRIOR APPLICATION NUMBER: 60/291, 186  
PRIOR FILING DATE: 2001-05-15  
PRIOR APPLICATION NUMBER: 60/303, 231  
PRIOR FILING DATE: 2001-07-05  
PRIOR APPLICATION NUMBER: 60/305, 060  
PRIOR FILING DATE: 2001-07-12  
PRIOR APPLICATION NUMBER: 60/318, 405  
PRIOR FILING DATE: 2001-09-10  
PRIOR APPLICATION NUMBER: 60/318, 700  
PRIOR FILING DATE: 2001-09-12  
NUMBER OF SEQ ID NOS: 227  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 45  
LENGTH: 1102  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-037-417-45

Alignment Scores:  
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Score: 1953.00 Matches: 357  
Percent Similarity: 100.00% Conservative: 0  
Best Local Similarity: 100.00% Mismatches: 0  
Query Match: 100.00% Indels: 0  
Gaps: 0

US-10-037-417-46 (1-357) x US-10-037-417-45 (1-1102)

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DB 19 ATGGCCCAAGAGGGGCTCTGGGGCTGGGCACTGGGGGCTGGGCAATTCTGACTCA 78  
QY 21 TysSerLeuYrGlyLeuValProSerGlyProAlaArgGlyProProTyrCysGlyArg 40  
DB 79 TACTACTTTACGGGTTGGTGGCCGACCGGACCCGCTAGGGGCCCCCGTACGGGGGCC 138  
QY 41 ProGluProSerAlaArgTLeuValGlyGlySerAsnAlaGlnProGlyThrTrpProTrp 60  
DB 139 CCTGAGCCCTCGGCGCCGATCGTGGGGGCTCAAAACGGGACCGCGGACCTGGGCTTGG 198  
QY 61 GlnValSerLeuHisGlyGlyGlyHisGlyGlyGlyGlyGlyGlyGlyGlyGlyGlyGly 80  
DB 199 CAAAGGAGCTGACATGAGAGTGGCCACATCTCGGGGGGCTCCCTCATTCGCCCTCC 258  
QY 81 TrpValLeuSerAlaAlaHisCysSpHecThrAsnGlyThrLeuGluProAlaAlaGlu 100  
DB 259 TGGTCTCTCTCGGCTGCTCACTGTTTCAATGAGAAATGGAGACTTGGAGCCCGCGGAG 318  
QY 101 TrpSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAspGlyValHisThrArg 120  
DB 319 TGGTGGTACTGCTGGGGGCTGACATCCCGAGGAGCGGGCCCTTGGACGGCGCACACCGGC 378  
QY 121 AlaValAlaAlaIleValValProAlaAsnTyrSerGlnValGluLeuGlyValAspLeu 140  
DB 379 GCAATGGCGGCAATGATGGTGGCGGCACTACAGCCAAATGGAGTGGGCGCCCAACTGG 438

QY 141 AlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaValIleTrpProValCysLeu 160  
DB 439 GCCCTGCTGGGCTGGGCTTCCACCGGCAAGCTGGGGCCCCGGTGGCTGTGCTGCTG 498  
QY 161 ProArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAlaThrGlyTrpGlyAsp 180  
DB 499 CCCCCGCTTCAACCCCTTGGTGGTACAGGACCGGCTGGGCGCACCGGCTGGGGAGAC 558  
QY 181 ValGlnGluAlaAspProLeuProLeuProTrpValLeuGlnGluValGlnLeuArgLeu 200  
DB 559 GTCCAGAGAGGAGATCTCTGCTGCTCCCGGCTGGTGTACAGAAATGAGACTAAGCTG 618  
QY 201 LeuGlyGluAlaThrCysGlnCysLeuTyrSerGlnProGlyProPheAsnLeuThrLeu 220  
DB 619 CTGGGCGAGGCGACCTGTCAATGTCTTACAGCCAGCCCGGCTCCCTTCAACCTCATCTTC 678  
QY 221 GlnIleLeuProGlyMetLeuCysAlaGlyTyrProGluGluValArgArgAspThrCysGln 240  
DB 679 CAGATATTGCCAGGAGATGCTGTGTGCTGCTACCAAGAGGCGCGAGGACACTTCCAG 738  
QY 241 GlyAspSerGlyGlyProLeuValCysGluGluGlyArgTyrPheGlnAlaGlyTle 260  
DB 739 GGTACTCTGGGGGGGCGGCTGCTGTGTGAGGAGAGCGGCGCTGGTTCAGAGCAGAAATC 798  
QY 261 ThisSerPheGlyPheGlyCysGlyArgArgAsnArgProGlyValPheThrAlaValAla 280  
DB 799 ACCAGCTTTGGGTTGGCTGTGTGAGACGAGAAACCGCCCTGAGATTTCACGCTGTGCT 858  
QY 281 ThrTyrGluAlaTrpIleArgGluGlnValMetGlySerGluProGlyProAlaPhePro 300  
DB 859 ACCATAGGCAATGATACGAGAGCAGGTGTAGGTTACAGCTGGGCTGGCTTCC 918  
QY 301 ThrGlnProGlnYsrGlnSerAspCysLeuHisGlnThrAlaPheLeuAspSerAla 320  
DB 919 ACCAGGCCCAAGAGACCACTGATGATTGTTACATCAAAACGCACTTCTGATCTGCC 978  
QY 321 ArgIleLeuLeuArgProLeuSerHisIleSerValGlyValSerThrGlyThrIlySer 340  
DB 979 AGAATCTCTTTGAGGCGCTTGTCCCATATATCAGTAGGAGTCTCAACTGGGACCAAAAGC 1038  
QY 341 LeuValLeuProTrpLeuSerProHisSerLeuLeuGlyLeuTrpGlyPhe 357  
DB 1039 CTGTCTCTCCCTGGCTCTCTCAACACTCTCTCTGGGCGCTTGGGGGTTTC 1089

RESULT 3  
US-09-888-615-52  
Sequence 52, Application US/09888615  
Patent No. US20020064856A1  
GENERAL INFORMATION:  
APPLICANT: PLOWMAN, GREGORY  
APPLICANT: WHYTE, DAVID  
APPLICANT: CAENEPEEL, SEAN  
APPLICANT: CHARVDCZAK, GLEN  
APPLICANT: MANNING, GERARD  
APPLICANT: SUDARSANAM, SUCHA  
TITLE OF INVENTION: NOVEL PROTEASES  
FILE REFERENCE: 038602/1214  
CURRENT APPLICATION NUMBER: US/09/888, 615  
PRIOR FILING DATE: 2001-06-26  
PRIOR APPLICATION NUMBER: 60/214, 047  
NUMBER OF SEQ ID NOS: 150  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 52  
LENGTH: 2457  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-888-615-52

Alignment Scores:  
Pred. No.: 2.85e-136 Length: 2457  
Score: 1505.00 Matches: 272  
Percent Similarity: 100.00% Conservative: 0

Best Local Similarity: 100.00%  
Query Match: 77.06%  
DB: 9  
Mismatches: 0  
Indels: 0  
Gaps: 0

US-10-037-417-46 (1-357) x US-09-888-615-52 (1-2457)

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QY 38 CysGlyArgProGluProSerAlaArgLeuAlaGlySerAsnAlaGlnProGlyThr 57
DB 112 TGGGGGGGCGCTAGCCCTCGGCCCGCATGCTGGGGGGCTCAACCGCGACCGGGCACC 171
QY 58 TrpProGlnValSerLeuHisHisGlyGlyHisIleCysGlyGlySerLeuIle 77
DB 172 TGGCCTTGGCAAGTGAAGCTCGACCACTGAGGTGGCCACATCGCGGGGCTCCCTCATC 231
QY 78 AlaProSerTrpValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeuGluPro 97
DB 232 GCCCCTCTCGGGGCTCTCGCTCGCTCACTGTTTCAATGACGATGGAGCGCTGGAGCCC 291
QY 98 AlaAlaGlnTrpSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAspGlyAla 117
DB 292 GCGGCGGAGTGTGGGTACTGCTGGGGGGTGGCACTCCCAAGACGGGCCCTGGACGGCGG 351
QY 118 HisThrArgAlaValAlaAlaIleValProAlaAsnTyrSerGlnValGluLeuGly 137
DB 352 CACACCCCGCAGATGGCCCGCATCGGTGGCCGCACTACAGCAAGTGAAGCTGGGC 411
QY 138 AlaAspLeuAlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaValTrpPro 157
DB 412 GCCGACCTGGCCCTGTGGCTGGCTGAGCTCACCGCCAGCCCTGGGCCCGCGGTGGCCT 471
QY 158 ValCysLeuProArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAlaThrGly 177
DB 472 GTCGTGCTGCGCCCGCCCTCACACCGCTTCGTGCAAGGACCGCCGTGGGCGACCGGC 531
QY 178 TrpGlyAspValGlnGlnAlaAspProLeuProLeuProTrpValLeuGlnGluValGlu 197
DB 532 TGGGGAAGATCGACGAGGACAGATCTCTGCTCCCTCGGTGGTGTACAGGAAGTGGAG 591
QY 198 LeuArgLeuLeuGlyGlnAlaThrCysGlnCysLeuTyrSerGlnProGlyProPheAsn 217
DB 592 CTAAAGCTGTGGGCGAGGCGACCTGTCATGCTCTACAGCCAGCCCGGCTCCCTTCAAC 651
QY 218 LeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTyrProGlnGlyArgArgAsp 237
DB 652 CTCACCTCTCAAGATATTGGCAAGGAGTGTGTGTGCTAGCCCAAGGGCCCGCAGAGAC 711
QY 238 ThrCysGlnGlyAspSerGlyGlyProLeuValCysGlnGlnGlyValArgTrpPheGln 257
DB 712 ACCTGCGAGGTGACTCTGGGGGGCCCTGTGTCTGTGAAGAAAGCGCGCTGGTCCAG 771
QY 258 AlaGlyIleThrSerPheGlyPheGlyCysGlyArgArgAsnArgProGlyValPheThr 277
DB 772 GAGGAATACACAGCTTTGGCTTTGGCTTTGAGACGAGAAACCGCCCTGAGTTTCACT 831
QY 278 AlaValAlaThrTyrGlnAlaTrpIleArgGlnGlnValMetGlySerGlnProGlyPro 297
DB 832 GCTGTGGCTACTATGAGCATGATACGAGGAGAGGTATGGATTCAAGCTGGGCT 891
QY 298 AlaPheProThrGlnProGlnTyrThrGlnSerAsp 309
DB 892 GCCTTTCCACCCAGCCCAAGAAAGCCAGTCAAGAT 927
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## RESULT 4

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US-10-176-847-85
; Sequence 85, Application US/10176847
; Publication No. US20030068636A1
; GENERAL INFORMATION:
; APPLICANT: Veiby, Petter Ole
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
; TITLE OF INVENTION: AND OVARIAN CANCER
; FILE REFERENCE: MRI-039
; CURRENT APPLICATION NUMBER: US/10/176,847
```

CURRENT FILING DATE: 2002-06-21

NUMBER OF SEQ ID NOS: 112

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 85

LENGTH: 1733

TYPE: DNA

ORGANISM: Homo sapiens

US-10-176-847-85

## Alignment Scores:

Pred. No.:	Length:
Score: 4,81e-58	1733
Percent Similarity: 697.00	Matches: 160
Best Local Similarity: 42.33%	Conservative: 49
Query Match: 35.69%	Mismatches: 133
DB: 15	Indels: 36
	Gaps: 11

US-10-037-417-46 (1-357) x US-10-176-847-85 (1-1733)

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QY 1 MetAlaGlnLeuGlyValLeuGlyProGlyGlnLeuGlyValAlaAsnSerAspSer 20
DB 99 ATGGCCAGAGAGGGGTCTGGGGCTGGGAGCTGGGGGCTGTGGCC----- 146
QY 21 TyrSerLeuTyr---GlyLeuValProSerGlyPro-----AlaArgGlyPro 35
DB 147 ATTCTGCTCTATCTGTGATTAATCTCGGTCAAGGAGACAGAGCGGAGAGGCGTCAAGCTCC 206
QY 36 ProTyrCysGlyArgProGluProSerAlaArgIleValGlySerAsnAlaGlnPro 55
DB 207 -----TGGGCT---GTGGCCCCCAAGCAGCATTCACAGGTGGCAGTGCATCGCC 257
QY 56 GlyThrTrpProTrpGlnValSerLeuHisHisGlyGlyHisIleCysGlyGlySer 75
DB 258 GGTCAAGTGGCCCTGGGAGGTACATCACTTGAAGGGCTCAATGTGTGTGGTCT 317
QY 76 LeuIleAlaProSerTrpValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeu 95
DB 318 CTGTGTCTGAAGAGTGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 377
QY 96 GluProAlaAlaGlnTrpSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAsp 115
DB 378 GAA-----GCCATGAGGTCAAGCTGGGGGGCCCAACAGTACATCTTACTCCGAG 428
QY 116 GlyAlaHisThrArgAlaValAlaIleValProAlaAsnTyrSerGlnValGlu 135
DB 429 GACGCCAAGGTACGACCTTGAAGGACATATCCCCACCCAGGACTCCAGAGGGGC 488
QY 136 LeuGlyAlaAspLeuAlaLeuArgLeuAlaSerProAlaSerLeuGlyProAlaVal 155
DB 489 TCCAGGGGAGCATTTGCACTCTCCAACTCAGACAGCCATGACTTCTCCGCTACATC 548
QY 156 TrpProValCysLeuProArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAla 175
DB 549 CGGCCATCTGCTCTCCGCAAGCCCAAGCCTTCCCAAGGCGCTCCACATGCACTGTC 608
QY 176 ThrGlyTrpGlyAspValGlnGlnAlaAspProLeuProLeuProTrpValLeuGlnGlu 195
DB 609 ACTGGCTGGGTGATGTGGCCCCCTCAAGTGAACCTTCAGCCCAAGCATCTGAGCAA 668
QY 196 ValGlnLeuLeuLeuGlyGlnAlaThrCysGlnCysLeuTyrSerGlnProGlyPro 215
DB 669 CTGAGGTGCTCTGATCAGTGTGAGAGCTGTAAGTCTGTACAAATGACGCGCAAG 728
QY 216 PheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTyrProGlnGlyArg 235
DB 729 CCTGAGAGCGCGACTTTGCAAGAGACAGATGTGTGTGTGTGTGTGTGTGTGTGTGTGT 788
QY 236 ArgAspThrCysGlnGlyAspSerGlyGlyProLeuValCysGlnGlnGlyValArgTrp 255
DB 789 AAGGAGCGCTGCGAAGGTATCTTGGGGCCCACTCTCGGCCCTGTGAGAGGTCTCTGG 848
QY 256 PheGlnAlaGlyIleThrSerPheGlyPheGlyCysGlyArgArgAsnArgProGlyVal 275
DB 848
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; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2214
; LENGTH: 1834
; TYPE: DNA
; ORGANISM: Homo sapiens
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 L41351
; US-09-880-107-2214

Alignment Scores:
Pred. No.: 5.13e-58 Length: 1834
Score: 697.00 Matches: 160
Percent Similarity: 55.29% Conservative: 49
Best Local Similarity: 42.33% Mismatches: 133
Query Match: 35.69% Indels: 36
DB: Gaps: 11

US-10-037-417-46 (1-357) x US-09-880-107-2214 (1-1834)
QY 1 MetAlaGlnLysGlyValLeuGlyProGlyGlnLeuGlyAlaValAlaAsnSerAspSer 20
Db ATGGCCAGAGAGGGGCTGGGGCTGGGGCACTGGGGCTGGGC-----276
QY 21 TyrSerLeuTyr---GlyLeuValProSerGlyPro-----AlaArgGlyPro 35
Db ATTCTGCTCTATCTTGATTAATTCGCGGAGACAGAGCGGAGGCGAGAGCTCCC 336
QY 36 ProTyrCysGlyYArgProGluProSerAlaArgIleValGlyYserAsnAlaGlnPro 55
Db 337 -----TGGGGT---GTGGCCCCCAAGACAGCATACAGGTGGCAGGTGAGTCGCC 387
QY 56 GlyThrTyrProTyrGlnValSerLeuHisHisGlyGlyGlyHisIleCysGlyGlySer 75
Db 388 GGTCAATGGGCGCTGGCAGGTCAACATCACTATGAAGCGCTCATGTGTGGTGGCTCT 447
QY 76 LeuIleAlaProSerTyrValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeu 95
Db 448 CTGTGTCTGACAGGTGGGTGTGTCACTGCTCACTCTCCCGACGACACACAG 507
QY 96 GluProAlaAlaGlnTyrSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAsp 115
Db 508 GAA-----GCTATAGGTCAAGCTGGGGCCCAACGATACCTCTACTCCGAG 558
QY 116 GlyAlaHisThrArgAlaValAlaAlaIleValAlaProAlaAsnTyrSerGlnValGlu 135
Db 559 GAGCCCAAGGTCAACCTCGAAGACATCATCCCCACCCCACTACCTCCAGAGGCG 618
QY 136 LeuGlyAlaAspLeuAlaLeuAlaArgLeuAlaSerProAlaSerLeuGlyProAlaVal 155
Db 619 TCCAGGGGCAATGACATCTCTCAACTCAAGACAACTTCCTCCCGCTACATC 678
QY 156 TyrProValCysLeuProArgAlaSerHisArgPheValHisGlyThrAlaCysTyrAla 175
Db 679 CGGCCCATCTGCTCTCCCTGACGACAAAGCTCTCTCCCAAGGCGCTCCACATGCTC 738
QY 176 ThrGlyTyrGlyAspValGlnGluAlaAspProLeuProLeuProTyrValLeuGlnGlu 195
Db 739 ACTGGCTGGGGTCAATGGCCCCCTCAGTAGAGCTCTCGACCCCAAGCCATCGACGA 798
QY 196 ValGlnLeuArgLeuLeuGlyGlnAlaThrCysGlnCysLeuTyrSerGlnProGlyPro 215
Db 799 CTGAGAGTGGCTGTGATCACTGTGAAGCGTGAACCTGTACAAATCGACGCCAAG 858
QY 216 PheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTyrProGluGlyArg 235
Db 859 CTCGAGAGCGCCGACCTTGTCCAAAGAGACATGTGTGTCTGTGCTATGTGGAGGGGCG 918
QY 236 ArgAspThrCysGlnGlnYArgSerGlyGlyProLeuValCysGlnGlnGlyGlyArgTyr 255
Db 919 AAGGAGCGCTGCGCAGGGTGACTCTGGGGGCCACTCTCCCTGTGAGAGGTCTCTGG 978

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QY 256 PheGlnAlaGlyIleThrSerPheGlyPheGlyCysGlyYArgArgAsnArgProGlyVal 275
Db 979 TACTCTGACCGGACATTTGTAGCTGGAGATGCTGTGGGGCCCGCAAGGCTGTGGTGTG 1038
QY 276 PheThrAlaValAlaThrTyrGlnAlaTyrIleArgGlnGlnValMetGlySerGluPro 295
Db 1039 TACACTCTGGCCCTCCAGCTATGCTCTGTGATCCAAAGCAAGTGT-----ACAGAACTC 1092
QY 296 GlyProAlaPheProThrGlnProGlnIlysrThrGlnSerAsp-----CysLeuHis 312
Db 1093 CAGCTCTGTGTGGTGGCCCAACCCAGAGGTCCACGCCCAACCACTCTGTGGCAGC 1152
QY 313 GlnThrAlaPheLeuAspSer---AlaArgIleLeuLeuArgProLeuSerHisIleSer 331
Db 1153 CACTGGCCCTTACAGCTCTGTGCCCAAGGCGTTGTGTAGAGCCCATCTTTCTGTGCT 1212
QY 332 ValGlyValSerThrGlyThrIlySerLeuValLeuProTyrPheSer-----347
Db 1213 CTGGGCTGTGGCTGTGGGC-----CTCTCTCCCAATGCTCAAGCGAGCATGAGCT 1263
QY 348 -----ProHisSerLeuLeuGlyLeuTyrGlyPhe 357
Db 1264 GGCCCTACTTCCAGATGAGATGATCATCACTCAAGGACAGAGAGCTGTCTTTC 1317

RESULT 7
US-09-967-768A-141
; Sequence 141, Application US/09967768A
; Patent No. US20020150877A1
; GENERAL INFORMATION:
; APPLICANT: Augustus, Meena
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-72
; CURRENT APPLICATION NUMBER: US/09/967,768A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/60/236,109
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,034
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,111
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 325
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 141
; LENGTH: 1834
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-967-768A-141

Alignment Scores:
Pred. No.: 5.13e-58 Length: 1834
Score: 697.00 Matches: 160
Percent Similarity: 55.29% Conservative: 49
Best Local Similarity: 42.33% Mismatches: 133
Query Match: 35.69% Indels: 36
DB: Gaps: 11

US-10-037-417-46 (1-357) x US-09-967-768A-141 (1-1834)
QY 1 MetAlaGlnLysGlyValLeuGlyProGlyGlnLeuGlyAlaValAlaAsnSerAspSer 20
Db 229 ATGGCCAGAGAGGGGCTGGGGCTGGGGCACTGGGGCTGGGC-----276
QY 21 TyrSerLeuTyr---GlyLeuValProSerGlyPro-----AlaArgGlyPro 35
Db 277 ATTCTGCTCTATCTTGATTAATTCGCGGAGACAGAGCGGAGGCGAGAGCTCCC 336
QY 36 ProTyrCysGlyYArgProGluProSerAlaArgIleValGlyYserAsnAlaGlnPro 55
Db 337 -----TGGGGT---GTGGCCCCCAAGACAGCATACAGGTGGCAGGTGAGTCGCC 387
QY 56 GlyThrTyrProTyrGlnValSerLeuHisHisGlyGlyGlyHisIleCysGlyGlySer 75

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[illegible]

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; RESULT 9
; US-09-968-007A-379
; Sequence 379, Application US/09968007A
; Publication No. US20040115625A1
; GENERAL INFORMATION:
; APPLICANT: Ebner, Reinhard
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signal

```

```

/ TITLE OF INVENTION: Gene Sets
/ FILE REFERENCE: 689290-71
/ CURRENT APPLICATION NUMBER: US/09/968,007A
/ CURRENT FILING DATE: 2001-10-02
/ PRIOR APPLICATION NUMBER: US/60/237,172
/ PRIOR FILING DATE: 2000-10-02
/ PRIOR APPLICATION NUMBER: US/60/237,173
/ PRIOR FILING DATE: 2000-10-02
/ PRIOR APPLICATION NUMBER: US/60/237,278
/ PRIOR FILING DATE: 2000-10-02
/ PRIOR APPLICATION NUMBER: US/60/237,294
/ PRIOR FILING DATE: 2000-10-02
/ PRIOR APPLICATION NUMBER: US/60/237,295
/ PRIOR FILING DATE: 2000-10-02
/ PRIOR APPLICATION NUMBER: US/60/237,316
/ PRIOR FILING DATE: 2000-10-02
/ NUMBER OF SEQ ID NOS: 1001
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO: 379
/ LENGTH: 1834
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ US-09-968-007A-379

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Alignment Scores:	
Pred. No.:	1834
Score:	5.13e-58
Percent Similarity:	69.00
Best Local Similarity:	55.29%
Query Match:	42.33%
DB:	35.69%
	12
	11

US-10-037-417-46 (1-357) X US-09-968-007A-379 (1-1834)

QY 1 MetAlaGlnTysGlyValLeuGlyProGlyGlnLeuGlyValAlaValAlaAsnSerAspSer 20  
Db 229 ATGGCCCAAGAGGGGGGCTCTGGGGGCTGGGGCAAGTGGGGGCTGGGCC----- 276  
QY 21 TyrSerLeuTyr--GlyLeuValProSerGlyPro-----AlaArgGlyPro 35  
Db 277 ATTCTGCTCTATCTTGGATTACTCCGGTCCGGGAGCAGAGCCGAGAGGGGCGAAGCTCCC 336  
QY 36 ProTyrCysGlyArgProGluProGluProSerAlaArgLLeuValGlyGlySerAlaGlnPro 55  
Db 337 -----TGGCGGT--GTGGCCCCCAAGCAGCAGCATCAAGAGTGGCAACAGTGCAGTCC 387  
QY 56 GlyThrThrProThrGlnValSerLeuHisGlyGlyGlyHisLeuCysGlyGlySer 75  
Db 388 GGTACAGTGGCCCTGGCAGGTACAGCATACCTATAGAGGCGCTCCATGTGTGTGGTGCTCT 447  
QY 76 LeuIleAlaProSerTyrValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeu 95  
Db 448 CTCCTGTCTAGCAGTGGGTGCTGTGCAGCTGCTACTGCTTCCGCCAGCAGCAACAAG 507  
QY 96 GlnProAlaAlaGluTyrPserValLeuLeuGlyValHisSerGlnAspGlyProLeuAsp 115  
Db 508 GAA-----GCCATAGAGGTCAAGCTGGGGGCCCAACAAGCTAGACTCTTACTCCGAG 558  
QY 116 GlyAlaHisThrArgAlaValAlaAlaGlyValValProAlaAsnTyrSerGlnValGlu 135  
Db 559 GACGCCAAGGTACAGCACCTCGAAGACATCATCCCCAACCCCAAGCTACCTCCAGAGGAGGC 618

QY 136 LeuGIaIaAaPLeuAaIaLeuLeuAaGLeuAaLeuAaSerProAaSerLeuGIaProAaIaVal 155  
 Db 619 TCCAGAGGGCCGATTCGACATCTCCAACTCAGCAAGCAATCAACCTTCCCGCTACATC 678  
 QY 156 TrpProAaIaCysLeuProAaGlaAaSerHisAaTrpHeValHisGIaThrAaCysTrpAaIa 175  
 Db 679 CGGCCCAATCTGCCTCCCTCCAGCCAAAGCCCTCTTCCCAAGCCCTCCCACTGACATGTC 738  
 QY 176 ThrGIaITrGIaAaPValGIaGluAaIaAaSPProLeuProITrPValLeuGln 195  
 Db 739 ACTGGCTGGGTCAATGATGGCCCTCCATGATGAGCTCCCTGACGCCCAAGCCACTGCAACAA 798  
 QY 196 ValGIaIaLeuAaGLeuLeuGIaIaIThrCysGlnCysLeuITrSerGlnProGIaPro 215  
 Db 799 CTCAGAGGTGCTGTGATGATGCTGTGAAGACGGTGAATGCTCTGTACAAACATGACGCCAAG 858  
 QY 216 PheAaLeuIThrLeuGlnIaLeuProGIaYMetLeuCysAaGIaITrProGlnIaYArg 235  
 Db 859 CCTAGAGAGCCGCACTTGTTCAGAGAGACATGATGTGTGTGTGCTATATGAGAGGGGGAGC 918  
 QY 236 ArgAaPTrCysGlnGIaAaSPSerGIaIaPProLeuValCysGlnGlnGIaIaYArgITr 255  
 Db 919 AAGGACGGCTCCAGAGGAGTCTGGGGGGCCCACTTCCTGAGAGGGCTCTGG 978  
 QY 256 PheGlnIaGIaIaIThrSerPheGIaYpHeGIaCysGIaIaArgATaAaArgProGIaIaVal 275  
 Db 979 TACCTGAAGGCGCATTTGACGCTGGGGAGAAATCCGTGGGGCCCGCAACAGGCTGGATGTG 1038  
 QY 276 PheIThrAaIaValaIThrITrGluAaITrPLeaArgGlnValMetGIaSerGlnPro 295  
 Db 1039 TACAATCTGGAGCTCAGCTATGCTCTCCCTGGATTCCAAAAGCAAGTGTG----ACAGAACTC 1092  
 QY 296 GIaPProAaIaPheProIThrGlnProGlnIaYThrGlnSerAaP-----CysLeuHis 312  
 Db 1093 CAGCCTCGTGTGATGCCCAAAACCGAAGATGCCAGCCCGCAACAGCAACCTGTGTGGAGCG 1152  
 QY 313 GlnIThrAaPheLeuAaSPSer---AlaArgITrLeuLeuAaArgProLeuSerHisITrSer 331  
 Db 1153 CACCTGGGCTTACGTCTGACCCAGGCCAGGAGGCTGTGAAGAGCCCATCTTTCTGTGCT 1212  
 QY 332 ValGIaIaValSerIThrGIaIThrIaYSerITrValLeuProITrPLeuSer----- 347  
 Db 1213 CTGGGAGCTGGAGCTGGGG-----CTCTCTTCCCATGATGCTGAGGAGCACTGAGCT 1266

Qy	348	-----	ProhibitinLeuTgPGLyPhe	357
Db	1264	GGCCCTACTTCAGAGATGATGCATCACTCAAGACAGAGAGCTGGTCTTTC	1317	
		RESULT 10		
		US-10-097-340-261		
		/ Sequence 261, Application US/10097340		
		/ Publication No. US20030087250A1		
		/ GENERAL INFORMATION:		
		/ APPLICANT: John MONAHAN		
		/ APPLICANT: Manjula GANNAVARAPU		
		/ APPLICANT: Sebastian HOERSCH		
		/ APPLICANT: Shubhangi KAMATKAR		
		/ APPLICANT: Steve G. KOVATS		
		/ APPLICANT: Rachel E. MEYERS		
		/ APPLICANT: Michael MORRISSEY		
		/ APPLICANT: Peter OLANDT		
		/ APPLICANT: Ami SEN		
		/ APPLICANT: Peter VEIBY		
		/ APPLICANT: Gordon B. MILLIS		
		/ APPLICANT: Robert C. BAST, Jr.		
		/ APPLICANT: Karen LU		
		/ APPLICANT: Rosemarie SCHEMADT		
		/ APPLICANT: Xumei ZHAO		
		/ APPLICANT: Karen GRATT		
		/ TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,		
		/ TITLE OF INVENTION: Assessment, Prevention, and Therapy Of Ovarian Cancer		
		/ FILE REFERENCE: MRI-030		
		/ CURRENT APPLICATION NUMBER: US/10/097,340		
		/ CURRENT FILING DATE: 2002-03-14		
		/ PRIOR APPLICATION NUMBER: 60/276,025		
		/ PRIOR FILING DATE: 2001-03-14		
		/ PRIOR APPLICATION NUMBER: 60/325,149		
		/ PRIOR FILING DATE: 2001-09-26		
		/ PRIOR APPLICATION NUMBER: 60/276,026		
		/ PRIOR FILING DATE: 2001-03-14		
		/ PRIOR APPLICATION NUMBER: 60/324,967		
		/ PRIOR FILING DATE: 2001/09/26		
		/ PRIOR APPLICATION NUMBER: 60/311,732		
		/ PRIOR FILING DATE: 2001-08-10		
		/ PRIOR APPLICATION NUMBER: 60/325,102		
		/ PRIOR FILING DATE: 2001-09-26		
		/ PRIOR APPLICATION NUMBER: 60/323,580		
		/ PRIOR FILING DATE: 2001-09-19		
		/ NUMBER OF SEQ ID NOS: 363		
		/ SOFTWARE: FastSeq For Windows Version 4.0		
		/ SEQ ID NO 261		
		/ LENGTH: 1834		
		/ TYPE: DNA		
		/ ORGANISM: Homo sapiens		
		US-10-097-340-261		
		Alignment Scores:		
		Pred. No.: 5,13e-58		1834
		Score: 697.00		160
		Percent Similarity: 55.29%		Conservative: 49
		Best Local Similarity: 42.33%		Mismatches: 133
		Query Match: 35.69%		Indels: 36
		DB: 15		Gaps: 11
		US-10-037-417-46 (1-357) x US-10-097-340-261 (1-1834)		
Qy	1	MetaInGlnTysGlyValLeuGlyProGlyGlnLeuGlyAlaValAlaIAsnSerAspSer	20	
Db	229	ATGGCCCAAGAGGGGCTCTGGGGCTTGGAGCTGGGGCTGTGGCC-----	276	
Qy	21	TyrSerLeuTyr---GlyLeuValProSerGlyPro-----AlaArgGlyPro	35	
Db	277	ATTTCGCTCTATCTTGATTTGATTACTCGGTCGGGAGACAGACGGAGGAGGACAAAGCTCC	336	
Qy	36	ProTyrCysGlyArgProGlnProSerAlaArgGlyLeuGlyGlnSerAsnAlaGlnPro	55	

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Db      337 -----TGGGT---GTGGCCCCCAAGCAGCATGCAAGAGTGGAGCAAGTGCAGTGC 387
Qy      56 GYThrTrpProTrpGlnValSerLeuHisGlyGlyGlyHisLeuCySerGlyGlySer 75
Db      388 GGTCAAGGGCCCTGGCAGTGCACATCATCTTAAGAGGGCTTCATGTTGGTGGCTT 447
Qy      76 LeuLeuAlaProSerTrpValLeuSerAlaAlaHisCySerPheMetThrAsnGlyThrLeu 95
Db      448 CTCGTGTCTGACAGTGGGTGGCTGTCAAGCTGCCTCACTGCTTCCCCCAGCAGCACAG 507
Qy      96 GlnProAlaAlaGlnTrpSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAsp 115
Db      508 GAA-----GGCTATGAGGTTCACACTGGGGGCCACAGAGTAACTCTCACTCCGAG 558
Qy      116 GlyAlaHisThrArgAlaValAlaAlaIleValValProAlaAsnTyrSerGlnValGlu 135
Db      559 GAGCCCAAGGTCAGACACCTGAAGAGCATATCCCCACCCCAAGCTACCTCCAGAGAGGC 618
Qy      136 LeuGlyAlaAspLeuAlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaVal 155
Db      619 TCCAGAGGCGACATTCGACTCTCTCAACTCAGCAGACCCATCACCTTCTCCCGTAACTC 678
Qy      156 TrpProValCysLeuProArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAla 175
Db      679 CGGGCCATCTGCTCCCTCCGACAGCAAGCGCTCTCCCAACAGCGCTCCACTGCATGTC 738
Qy      176 ThrGlyTyrGlyAspValGlnGluAlaAspProLeuProLeuProTyrValLeuGlnGlu 195
Db      739 ACTGGTGGGGTCAATGTGGCCCCCTCGAGAGCTCCGTCGACGCCCAAGCCATGCAAGAA 798
Qy      196 ValGlnLeuArgLeuLeuGlyGluAlaEthrCysGlnCysLeuTyrSerGlnProGlyPro 215
Db      799 CTCGAGGTGCTCGATGATGCTGTGAAGACGTGAACCTGTGACATCGTACATCAGCCAG 858
Qy      216 PheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTyrProGlnGlyArg 235
Db      859 CCTAGAGAGCCGCACTTGTCCAGAGGACATGATGTGTGTGTGCTATGTGGAGGGGGGC 918
Qy      236 ArgAspThrCysGlnGlyAspSerGlyGlyProLeuValCysGlnGluGlyValArgTyr 255
Db      919 AAGGACGGCTCCAGGGGTGATCTGTGGGGGCCCACTCTCCCTGCTGGAGGGTCTGTGG 978
Qy      256 PheGlnAlaGlyIleEthrSerPheGlyPheGlyCysGlyArgAsnArgProGlyVal 275
Db      979 TACCTGACGGGCATTTGAGCTGGAGAGATGCCCTGTGGGCCCGGACAGGCCCTGGGTGT 1038
Qy      276 PheThrAlaValAlaThrTyrGluAlaTrpIleArgGlnGlnValMetGlySerGlnPro 295
Db      1039 TACACTCTGGGCTCCAGCTATAGCTCTCGATTCACAAAGCAAGGTC-----ACAGAACTC 1092
Qy      296 GlyProAlaPheProThrGlnProGlnTyrThrGlnSerAsp-----CysLeuHis 312
Db      1093 CAGCCTCGTGGTGGTCCCAAAACCCAGAGATCCCAAGCCCGCAACACACTCTGTGGCAGC 1152
Qy      313 GlnThrAlaPheLeuAspSer---AlaArgIleLeuLeuArgProLeuSerHisIleSer 331
Db      1153 CACTGTGCTTCAAGCTCTGCCCAAGCCAGAGGCTTGTGAGGCCCATCTTTCTGTGCTT 1212
Qy      332 ValGlyAlaSerThrGlyThrTyrSerLeuValLeuProTyrLeuSer----- 347
Db      1213 CTGGGCTCTGGCTCTGGGC-----CTCTCTCCCATAGGCTCAGAGACACTGAAGCT 1263
Qy      348 -----ProHisSerLeuLeuGlyLeuTyrPhe 357
Db      1264 GGCCCTACTTCCAGAGTGAATGATCACTCACTCAAGACAGAGAGCTGTGCTTC 1317

RESULT 11
US-10-101-510-447
; Sequence 447, Application US/10101510
; Publication No. US20030148295A1
; GENERAL INFORMATION:
; APPLICANT: WAN, JACKSON
; APPLICANT: WANG, YIXIN

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Db      209  ATGGCCAGAGAGGGGGCTGGGGCTGGGACGCTGGGGCTGGGCC----- 256
Qy      21  TyrSerLeuYr---GlyLeuValProSerGlyPro---AlaArgGly---ProProTyr 37
Db      257  ATTTCGCTCTATCTTGGATTACCTCCGGTCGGGGACAGAGAGGGGAGAGAGCTGCC 316
Qy      38  CysGlyArgProGluProSerAlaArgIleValGlyGlySerAsnAlaGlnProGlyThr 57
Db      317  TGGGGT---GTGGCCCCCAAGACAGCATACAGGTGGGACAGTGCAGTGGCGGGTCAG 373
Qy      58  TrpProTrpGlnValSerLeuHisGlyGlyGlyIleCysGlyGlySerLeuIle 77
Db      374  TGGCCCTGGGACGCTGACATCATCTATGAAGCGCTCATGTGTGGTGGCTCTCTGTG 433
Qy      78  AlaProSerTrpValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeuGluPro 97
Db      434  TCTGACAGATGGGTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 490
Qy      98  AlaAlaGluTrpSerValLeuLeuGlyValHisSerGlnAspGlyProLeuAspGlyAla 117
Db      491  -----GCTATGAGGTCAAGCTGGGGGCCACAGAGTACGCTCTACTCCAGAGAGGCC 544
Qy      118  HisThrArgAlaValAlaAlaIleValValProAlaAsnTyrSerGlnValGlnLeuGly 137
Db      545  AAGGTCAACACCTGAAGAGACATCATCCCCACCCGCTACCTCCAGAGAGGCTCCAG 604
Qy      138  AlaAspLeuAlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaValTrpPro 157
Db      605  GGGCACTTGCACTCTCCATCTCACTGACAGACCATCACTCTCCCGCTACATCGGGCC 664
Qy      158  ValCysLeuProAlaGalaSerHisArgPheValHisGlyThrAlaCysTrpAlaThrGly 177
Db      665  ATCTGCTCTCTCTGAGCCAGAGCTCTCTCTCCCAAGCGCTCCAGCTGACGTGCTGCTG 724
Qy      178  TrpGlyAspValGlnGlnAlaAspProLeuProLeuProTrpValLeuGlnGlnValGlu 197
Db      725  TGGGGTCAATGTGGCCCCCTCAGTGAAGCTCTGACGCCCAAGCCACCTGACACACTGAG 784
Qy      198  LeuArgLeuLeuGlyGlnAlaLeuThrCys-GlnCysLeuTyrSerGlnProGlyProPheAs 217
Db      785  GTGGCTCTGATCACTCGTAGACCTGTGTAACCTGCTGACAACTGACGCCAAGCTGAC 844
Qy      217  nLeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTyrProGluGlyArgArgAs 237
Db      845  GGAACCGGACCTTGTCCAAAGAGACATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 904
Qy      237  pThrCysGlnGlyAspSerGlyGlyProLeuValCysGlnGlnGlyGlyArgTrpPheG 257
Db      905  CGCCTGGCCAGGGGTACTCTGGGGGCCCACTCTCTGCTGAGAGGGTCTCTGTGCTCT 964
Qy      257  nAlaGlyIleThrSerPheGlyPheGlyCysGlyArgArgAsnArgProGlyValPheTh 277
Db      965  GACGGGAGTGTGTAGTGGGAGATGCTGTGGGGCCCGCAACAGGCTGTGTGTGTATAC 1024
Qy      277  rAlaValAlaThrTyrGlnAlaTrpIleArgGlnGlnValMetGlySerGluProGlyPr 297
Db      1025  TCTGGCTCCACGCTATGCTCTCTGTGATCCAAAGAGGTG-----ACAGAACCTCCAGCC 1078
Qy      297  oAlaPheProThrGlnProGlnLysThrGlnSerAsp-----CysLeuHisGlnTh 314
Db      1079  TCGTGTGGTGGCCCAAAACCCAGAGATCCAGACCCGACGAACTCTGTGTCAGACCACT 1138
Qy      314  rAlaPheLeuAspSer---AlaArgIleLeuLeuArgProLeuSerHisIleSerValG 333
Db      1139  GGGCTTGAAGCTGTGCCCCAGAGGCTGTGTGGGCCCAATCTTTTCTGCTCTGCTGGG 1198
Qy      333  ValSerThrGlyThrLysSerLeuValLeuProTrpLeuSer----- 347
Db      1199  CTTGGCTGTGGCC-----CTCTCTCCCAATGCTGTGAGCGACACTGAGCTGGGCC 1249
Qy      348  -----ProHisSerLeuLeuGlyLeuTrpGlyPhe 357

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Db      1250  TACTTCCAGAGATGATCATCATCATCAAGAGACGAGCTGTCTTTC 1298
RESULT 13
US-10-042-865-29
; Sequence 29, Application US/10042865
; Publication No. US20040029216A1
; GENERAL INFORMATION:
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Li, Li
; APPLICANT: Zernusen, Bryan D
; APPLICANT: Caseman, Stacie J
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Spytek, Kimberly
; APPLICANT: Zhong, Wei
; APPLICANT: Gangoli, Esna A
; APPLICANT: Burgess, Catherine E
; APPLICANT: Patturajan, Meera
; APPLICANT: Verneet, Corine A.M
; APPLICANT: Taylor, Sarah
; APPLICANT: Tchernev, Velizar T
; APPLICANT: Miller, Charles E
; APPLICANT: Guo, Xiaojia
; APPLICANT: Boldog, Ference L
; APPLICANT: Grose, William M
; APPLICANT: Alsobrook II, John P
; APPLICANT: Gerlach, Valerie L
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Rothenberg, Mark E
; APPLICANT: Ellenman, Karen
; APPLICANT: Macdonald, John
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Mallet, Isabelle
; APPLICANT: Peyman, John
; APPLICANT: Smithson, Glenda
; APPLICANT: Gunther, Erik
; APPLICANT: Stone, David
; TITLE OF INVENTION: Proteins, Polynucleotides Encoding Them and Methods of
; FILE REFERENCE: 21402-537
; CURRENT APPLICATION NUMBER: US/10/042,865
; PRIOR FILING DATE: 2002-05-17
; PRIOR APPLICATION NUMBER: 60/260,417
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: 60/260,831
; PRIOR FILING DATE: 2001-01-10
; PRIOR APPLICATION NUMBER: 60/272,338
; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/274,876
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: 60/284,704
; NUMBER OF SEQ ID NOS: 264
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 29
; LENGTH: 1726
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-042-865-29

Alignment Scores:
Pred. No.: 1,11e-53 Length: 1726
Score: 652.00 Matches: 152
Percent Similarity: 52.12% Conservative: 45
Best Local Similarity: 40.21% Mismatches: 109
Query Match: 33.38% Indels: 72
DB: 13 Gaps: 12

US-10-037-417-46 (1-357) x US-10-042-865-29 (1-1726)
Qy      1  MetaGlnArgGlyValLeuGlyProGlyGlnLeuGlyAlaValAlaAsnSerAspSer 20
Db      229  ATGGCCAGAGAGGGGCTCTGGGGCTGGGACGCTGGGGCTGTGGCC----- 276

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QY 21 TyrSerLeuTyr---GlyLeuValProSerGlyPro-----AlaArgGlyPro 35
Db 277 ATTTCGTCTATCTTGGATTAATCTCCGGTGGGACAGAGCGGAGGGGAGAGACTCCC 336
QY 36 ProTyrCysGlyArProGluProSerAlaArgGlyLeuValGlyGlySerAsnGlnPro 55
Db 337 -----TGGGGT---GTGGCCCCCAAGACCGCATACAGAGTGGGACGATGCGCGC 387
QY 56 GlyThrTrpProTProGlnValSerLeuHisHisGlyGlyGlyHisGlyGlySer 75
Db 388 GGTCAGTGGCCCTGGGAGGAGCAGTCACTCACTTAAGAGGGGTCCATGTCGTGGTGGCTCT 447
QY 76 LeuLeuAlaProSerTrpValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeu 95
Db 448 CTCGTCTCTGACAGAGGGGTGCTGTCAAGCTGCTCACTGCTTC----- 489
QY 96 GlnProAlaAlaGlnTrpSerValLeuGlyValHisSerGlnAspGlyProLeuAsp 115
Db 489 ----- 489
QY 116 GlyAlaHisThrArgAlaValAlaAlaIleValValProAlaAsnTyrSerGlnValGlu 135
Db 490 -----CCGAGCGAGACCAAGGGCTCC 513
QY 136 LeuGlyAlaAspLeuAlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaVal 155
Db 514 CAGGGC---GACATTTCACCTCTCCCACTCAGAGAGCCACAGCTACCTCCGCTATATC 570
QY 156 TrpProValCysLeuProAlaArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAla 175
Db 571 CCGCCCATCTGCTCCCTCCAGCAGCAAGCCTCTCCCAAGGGCTCCACATGACATGTC 630
QY 176 ThrGlyTrpGlyAspValGlnGlnAlaAspProLeuProLeuProTrpValLeuGlnGlu 195
Db 631 ACTGGCTGGGGTCATGTGGCCCCCTCAGAGCCTCTCCAGCCCAAGCCACTGGAGCA 690
QY 196 ValGlnLeuArgLeuLeuGlyGlnAlaThrCysGlnCysLeuTyrSerGlnProGlyPro 215
Db 691 CTCGAGGTGCTCTATCACTGAGTGTGAGAGCTGTGAATGCTGTGACACATCCAGCGCAAG 750
QY 216 PheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTrpProGlnGlyArg 235
Db 751 CCTGAGAGACCCGACTTGTTCAGAGAGACATGTGTGTGTGTGTGTGTGTGTGTGTGTG 810
QY 236 ArgAspThrCysGlnGlyAspSerGlyGlyProLeuValCysGlnGlnGlyGlyArgTrp 255
Db 811 AAGGACGCTGCGCAGGGTACTGTGGGAGCCACATCTCTCTGCTGTGAGAGGGTCTGTGG 870
QY 256 PheGlnAlaGlyIleThrSerPheGlyPheGlyCysGlyArgArgAsnArgProGlyVal 275
Db 871 TACCTGACGGGCACTGTGAGCTGGGAGATGCTGTGGGGCCCGCAACAGGCTGTGTGG 930
QY 276 PheThrAlaValAlaThrTyrGlnAlaTrpIleArgGlnGlnValMetGlySerGlnPro 295
Db 931 TACACTCTGGCTCCAGCTATGCTCTGTGATCCAAAGCAAGGTG-----ACAGAACTC 984
QY 296 GlyProAlaPheProThrGlnProGlnTyrStnGlnSerAsp-----CysLeuHis 312
Db 985 CAGCCCTGCTGGTGGTCCCAAAACCCAGAGTCCCAAGCCGAGCAACTCTGTGGCAGC 1044
QY 313 GlnThrAlaPheLeuAspSer---AlaArgIleLeuLeuArgProLeuSerHisIleSer 331
Db 1045 CAGCTGGGCTTTCAGCTCTGCCAGCCAGCGGCTTCTGAGGCCATCTTTTCTGCTCT 1104
QY 332 ValGlyValSerThrGlyThrTyrSerLeuValLeuProTyrPleuSer----- 347
Db 1105 CTGGGGCTGGCTCTGGGC-----CTCCCTCTCCCACTGAGCTCAGCAGAGCACTGAGCT 1155
QY 348 -----ProHisSerLeuLeuGlyLeuTrpGlyPhe 357
Db 1156 GGCCCTACTTCCAGATGAGTGCATCACTCAAGGACAGAGGCTGTGTCTTC 1209
RESULT 14
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US-10-109-616-1
; Sequence 1, Application US/10109616
; Publication No. US20030167484A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Keith D.
; TITLE OF INVENTION: TRANSGENIC MICE CONTAINING CHANNEL
; TITLE OF INVENTION: ACTIVATING PROTEASE 1 (CAP1) GENE DISRUPTIONS
; FILE REFERENCE: R-490
; CURRENT APPLICATION NUMBER: US/10/109,616
; CURRENT FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: US 60/280,509
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: US 60/311,055
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 1
; LENGTH: 1797
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-109-616-1

Alignment Scores:
Pred. No.: 2,77e-51 Length: 1797
Score: 627.50 Matches: 144
Percent Similarity: 55.17% Conservative: 48
Best Local Similarity: 41.38% Mismatches: 139
Query Match: 32.13% Indels: 17
DB: 15 Gaps: 9

US-10-037-417-46 (1-357) x US-10-109-616-1 (1-1797)
QY 1 MetAlaGlnGlyValLeuGlyProGlyGlnLeuGlyAlaValAlaAsnSerAsp 20
Db 146 ATGGCCCCAAGGGTGGGCTGGACTTGGAGCTGGAGCTGTGACC-----ATT 196
QY 21 TyrSerLeuTyrGlyLeuValProSerGlyY---ProAlaArgGlyY---ProProTyrCys 38
Db 197 CTCGTCTCTTCTGGAGTGTCTCAAGTGGGAATCCAGCTGAGAGGACTGAAGCTCTCT 256
QY 39 GlyArgPro---GlnProSerAlaArgIleValGlyGlySerAsnAlaGlnProGlyThr 57
Db 257 GGTCGCCGTATCAACCA-----CGCATCACCGGTGGTGGAGTGCAGAGCCGGTCCAG 310
QY 58 TrpProTProGlnValSerLeuHisHisGlyGlyGlyHisGlyGlySerLeuIle 77
Db 311 TGGCCCTGGCAGGTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACT 370
QY 78 AlaProSerTrpValLeuSerAlaAlaHisCysPheMetThrAsnGlyThrLeuGlnPro 97
Db 371 TCAAAATTAATGGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 427
QY 98 AlaAlaGlnTrpSerValLeuGlnGlyValHisSerGlnAspGlyProLeuAspGlyAla 117
Db 428 -----GCGTATGAGGTGAGCTGGGGGGCCACAGCTAGACTCTTACAGCATATGACACT 481
QY 118 HisThrArgAlaValAlaAlaIleValValProAlaAsnTyrSerGlnValGlnLeuGly 137
Db 482 GTGTGTCCACAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 541
QY 138 AlaAspLeuAlaLeuLeuArgLeuAlaSerProAlaSerLeuGlyProAlaValTrpPro 157
Db 542 GGGAGCATGGGTTTATCGCTCGCTCAGAGCTCGTCACTCTCCCGGTATCATACAGACC 601
QY 158 ValCysLeuProAlaArgAlaSerHisArgPheValHisGlyThrAlaCysTrpAlaThrGly 177
Db 602 ATTGTCTCTCCCTGAGCCCATGCTCTCTTCCCAAGCGCTTCACTGTATCTGTACGGGA 661
QY 178 TrpGlyAspValGlnGlnAlaAspProLeuProLeuProTrpValLeuGlnGlnValGlu 197
Db 662 TGGGGTCATGTGGCTCTTCACTGAGCTTCCAGAGCCCTTCAAGGCTCTGTGAGGAGCTCGAG 721
QY 198 LeuArgLeuLeuGlyGlnAlaThrCysGlnCysLeuTyrSerGlnProGlyProPheAsn 217
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QY 174 TrpAlaThrGlyTrpGlyAspValGlnGluAlaAspProLeuProLeuProTrpValLeu 193
Db 712 ACTGTCACTGGCTGGGTCAATGTGGCCCCCTCACTGAGCCTCCAGAGCCCAAGCCACTG 771
QY 194 GlnGluValGlnLeuArgLeuLeuGlyGluAlaThrCysGlnCysLeuTyrSerGlnPro 213
Db 772 CAGCAACTCGAGGTGCTCTGATCAATCGTGAAGCGTGTAACTGCTGTACAACATCGAC 831
QY 214 GlyProPheAsnLeuThrLeuGlnIleLeuProGlyMetLeuCysAlaGlyTyrProGlu 233
Db 832 GCCAAGCCTGAGAGGCCGCACTTTGTCAAAGAGACATGATGTGTGCTGGCTATGTGAG 891
QY 234 GlyArgArgAspThrCysGlnGlyAspSerGlyGlyProLeuValCysGlnGluGlyGly 253
Db 892 GGGGGCAAGGACCGCTGCCAGGGTGAATCTGGGGGCCCACTCTCTGCTGCTGAGAGGT 951
QY 254 ArgTrpPheGlnAlaGlyIleThrSerPheGlyPheGlyCysGlyArgArgAsnArgPro 273
Db 952 CTCTGGTACCTGACGGGCAATGTGAGCTGGGAGATGCTGTGGGGCCGCCAACAAGGCT 1011
QY 274 GlyValPheThrAlaValAlaThrTyrGluAlaTrpIleArgGlnGlnValMetGlySer 293
Db 1012 GGTGTGTACACTGTGGCTCTCAAGCTATGCTCTGATCCAAAGCAAGACACTCTGCGGGA 1071
QY 294 GlnProGlyProAlaPheProThrGlnPro 303
Db 1072 GGCTGGGGCCCACTTGATCTTTGAGCCC 1101
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Search completed: August 4, 2004, 15:34:11  
Job time : 500 secs